



NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT

PERMITTEE: DEMOPOLIS WATERWORKS & SEWER BOARD
2101 WATER AVE
DEMOPOLIS, ALABAMA 36732

FACILITY LOCATION: DEMOPOLIS WWTP (2.65) MGD
2101 WATER AVE
DEMOPOLIS, ALABAMA
MARENGO COUNTY 36732

PERMIT NUMBER: AL0043168

RECEIVING WATERS: TOMBIGBEE RIVER

In accordance with and subject to the provisions of the Federal Water Pollution Control Act, as amended, 33 U.S.C. §§1251-1378 (the "FWPCA"), the Alabama Water Pollution Control Act, as amended, Code of Alabama 1975, §§ 22-22-1 to 22-22-14 (the "AWPCA"), the Alabama Environmental Management Act, as amended, Code of Alabama 1975, §§22-22A-1 to 22-22A-15, and rules and regulations adopted thereunder, and subject further to the terms and conditions set forth in this permit, the Permittee is hereby authorized to discharge into the above-named receiving waters.

ISSUANCE DATE:

EFFECTIVE DATE:

EXPIRATION DATE:

Draft

Alabama Department of Environmental Management

MUNICIPAL SECTION
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
PERMIT

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PART I **DISCHARGE LIMITATIONS, CONDITIONS, AND REQUIREMENTS** **A. DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS**

1. Outfall 0011 Discharge Limits

During the period beginning on the effective date of this permit and lasting through the expiration date of this permit, the Permittee is authorized to discharge from Outfall 0011, which is described more fully in the Permittee's application. Such discharge shall be limited and monitored by the Permittee as specified below:

Parameter	Discharge Limitation							Monitoring Requirements			
	Monthly Average	Weekly Average	Monthly Average	Weekly Average	Daily Minimum	Daily Maximum	Percent Removal	(1) Sample Location	(2) Sample Type	(3) Measure nt Frequency	Seasonal
Oxygen, Dissolved (DO)	00300 1 0 0	*****	*****	*****	6.0 mg/l	*****	*****	E	GRAB	C	*****
pH	00400 1 0 0	*****	*****	*****	6.0 S.U.	9.0 S.U.	*****	E	GRAB	C	*****
Solids, Total Suspended	00530 G 0 0	REPORT lbs/day	REPORT lbs/day	REPORT mg/l	*****	*****	*****	I	COMP24	C	*****
Solids, Total Suspended	00530 1 0 0	663 lbs/day	994 lbs/day	30.0 mg/l	*****	*****	*****	E	COMP24	C	*****
Nitrogen, Ammonia Total (As N)	00610 1 0 0	221 lbs/day	331 lbs/day	10.0 mg/l	*****	*****	*****	E	COMP24	C	*****
Nitrogen, Kjeldahl Total (As N)	00625 1 0 0	REPORT lbs/day	REPORT lbs/day	REPORT mg/l	*****	*****	*****	E	COMP24	G	*****
Nitrite Plus Nitrate Total I Det. (As N)	00630 1 0 0	REPORT lbs/day	REPORT lbs/day	REPORT mg/l	*****	*****	*****	E	COMP24	G	*****
Phosphorus, Total (As P)	00665 1 0 0	REPORT lbs/day	REPORT lbs/day	REPORT mg/l	*****	*****	*****	E	COMP24	G	*****
Arsenic, Total Recoverable	00978 1 0 0	*****	*****	REPORT mg/l	*****	REPORT mg/l	*****	E	COMP24	E	*****
Flow, In Conduit or Thru Treatment Plant	50050 1 0 0	REPORT MGD	*****	*****	*****	REPORT MGD	*****	E	CONTIN	A	*****
Chlorine, Total Residual (See Note 5)	50060 1 0 0	*****	*****	*****	*****	1.0 mg/l	*****	E	GRAB	C	*****

* See Part II.C.1. (Bypass); Part II.C.2. (Upset)

** Monitoring Requirements

(1) Sample Location

I - Influent
E - Effluent
X - End Chlorine Contact Chamber
K - Percent Removal of the Monthly Avg. Influent Concentration from the Monthly Avg. Effluent Concentration.
RS - Receiving Stream

(2) Sample Type:

CONTIN - Continuous
INSTAN - Instantaneous
COMP-8 - 8-Hour Composite
COMP24 - 24-Hour Composite
GRAB - Grab
CALCTD - Calculated

(3) Measurement Frequency: See also Part I.B.2.

A - 7 days per week
B - 5 days per week
C - 3 days per week
D - 2 days per week
E - 1 day per week
F - 2 days per month
G - 1 day per month
H - 1 day per quarter
J - Annual
Q - For Effluent Toxicity Testing, see Provision IV.B.

(4) Seasonal Limits:

S = Summer (May - November)
W = Winter (December - April)
ECS = E. coli Summer (June - September)
ECW = E. coli Winter (October - May)

(5) See Part IV.C for Total Residual Chlorine (TRC). Monitoring for TRC is applicable if chlorine is utilized for disinfection purposes. If monitoring is not applicable during the monitoring period, enter "NODI=9" on the monthly DMR.

2. Outfall 0011 Discharge Limits (continued)

During the period beginning on the effective date of this permit and lasting through the expiration date of this permit, the Permittee is authorized to discharge from Outfall 0011, which is described more fully in the Permittee's application. Such discharge shall be limited and monitored by the Permittee as specified below:

Parameter	Discharge Limitation						Monitoring Requirements			
	Monthly Average	Weekly Average	Monthly Average	Weekly Average	Daily Minimum	Daily Maximum	Percent Removal	(1) Sample Location	(2) Sample Type	(3) Measurement Frequency
E. Coli 51040 1 0 0	*****	*****	467 col/100mL	*****	*****	960 col/100mL	*****	E	GRAB	C
E. Coli 51040 1 0 0	*****	*****	2030 col/100mL	*****	*****	5000 col/100mL	*****	E	GRAB	C
BOD, Carbonaceous 05 Day, 20C 80082 G 0 0	REPORT lbs/day	REPORT lbs/day	REPORT mg/l	REPORT mg/l	*****	*****	*****	I	COMP24	C
BOD, Carbonaceous 05 Day, 20C 80082 1 0 0	331 lbs/day	497 lbs/day	15.0 mg/l	22.5 mg/l	*****	*****	*****	E	COMP24	C
Solids, Suspended Percent Removal 81011 K 0 0	*****	*****	*****	*****	*****	*****	85.0	K	CALCTD	G

* See Part II.C.1. (Bypass), Part II.C.2. (Upset)

** Monitoring Requirements

(1) Sample Location

I - Influent

E - Effluent

X - End Chlorine Contact Chamber

K - Percent Removal of the Monthly Avg. Influent Concentration from the Monthly Avg. Effluent Concentration.

RS - Receiving Stream

(2) Sample Type:

CONTIN - Continuous

INSTAN - Instantaneous

COMP-8 - 8-Hour Composite

COMP24 - 24-Hour Composite

GRAB - Grab

CALCTD - Calculated

(3) Measurement Frequency: See also Part I.B.2.

A - 7 days per week

B - 5 days per week

C - 3 days per week

D - 2 days per week

E - 1 day per week

(4) Seasonal Limits:

S = Summer (May - November)

W = Winter (December - April)

ECS = E. coli Summer (June - September)

ECW = E. coli Winter (October - May)

Q - For Effluent Toxicity Testing, see Provision IV.B.

3. Outfall 001T Discharge Limits

This is an administrative outfall designation. Outfall 001T is the same physical outfall as Outfall 0011. Discharge from this outfall shall be limited and monitored by the Permittee as specified below:

Parameter	Discharge Limitation							Monitoring Requirements			
	Monthly Average	Weekly Average	Monthly Average	Weekly Average	Daily Minimum	Daily Maximum	Percent Removal	(1) Sample Location	(2) Sample Type	(3) Measure at Frequency	Seasonal
Toxicity, Ceriodaphnia Acute	*****	Pass = 0 Fail = 1	*****	*****	*****	*****	*****	E	COMP24	Q	*****
Toxicity, Ceriodaphnia Acute	*****	Pass = 0 Fail = 1	*****	*****	*****	*****	*****	E	COMP24	Q	*****
Toxicity, Pimephales Acute	*****	Pass = 0 Fail = 1	*****	*****	*****	*****	*****	E	COMP24	Q	*****

* See Part II.C.1. (Bypass); Part II.C.2. (Upset)

** Monitoring Requirements

(1) Sample Location

I – Influent
E – Effluent
X – End Chlorine Contact Chamber
K - Percent Removal of the Monthly Avg. Influent Concentration from the Monthly Avg. Effluent Concentration.
RS - Receiving Stream

(2) Sample Type:

CONTIN - Continuous
INSTAN - Instantaneous
COMP-8 - 8-Hour Composite
COMP24 - 24-Hour Composite
GRAB – Grab
CALCTD - Calculated

(3) Measurement Frequency: See also Part I.B.2.

A - 7 days per week
B - 5 days per week
C - 3 days per week
D - 2 days per week
E - 1 day per week
F - 2 days per month
G - 1 day per month
H - 1 day per quarter
J - Annual
Q - For Effluent Toxicity Testing, see Provision IV.B.

(4) Seasonal Limits:

S = Summer (May – November)
W = Winter (December – April)
ECS = E. coli Summer (June – September)
ECW = E. coli Winter (October – May)

4. Storm Water Outfalls 003S and 004S Discharge Limits

During the period beginning on the effective date of this permit and lasting through the expiration date of this permit, the Permittee is authorized to discharge from Outfalls 003S and 004S, which are described in the application as storm water outfalls located at the Permittee's wastewater treatment plant. (Outfalls 003S and 004S in this permit correspond to Outfalls DSN-003 and DSN-004, respectively, in the permit application.) Discharge limitations and monitoring requirements shall apply as follows:

Parameter	Discharge Limitations*							Monitoring Requirements**			
	Monthly Average	Weekly Average	Monthly Average	Weekly Average	Daily Minimum REPORT S.U.	Daily Maximum REPORT S.U.	Percent Removal	(1) Sample Location	(2)(5) Sample Type	(3) Measurement Frequency	(4) Seasonal
pH	*****	*****	*****	*****			*****	E	GRAB	J	*****
00400 1 0.0											
Solids, Total Suspended	*****	*****	*****	*****	*****	REPORT mg/l	*****	E	GRAB	J	*****
00530 1 0.0											
Ammonia, Total (As N)	*****	*****	*****	*****	*****	REPORT mg/l	*****	E	GRAB	J	*****
00610 1 0.0											
Nitrogen, Total Kjeldahl	*****	*****	*****	*****	*****	REPORT mg/l	*****	E	GRAB	J	*****
00625 1 0.0											
Nitrite Plus Nitrate, Total (As N)	*****	*****	*****	*****	*****	REPORT mg/l	*****	E	GRAB	J	*****
00630 1 0.0											
Phosphorus, Total	*****	*****	*****	*****	*****	REPORT mg/l	*****	E	GRAB	J	*****
00665 1 0.0											
Oil and Grease	*****	*****	*****	*****	*****	15 mg/l	*****	E	GRAB	J	*****
03582 1 0.0											
Flow, In Conduit or Thru Treatment Plant	*****	*****	*****	*****	*****	REPORT MGD	*****	E	CALCTD	J	*****
50050 1 0.0											
Chlorine, Total Residual (See Note 6)	*****	*****	*****	*****	*****	REPORT mg/l	*****	E	GRAB	J	*****
50060 1 0.0											
E. coli	*****	*****	*****	*****	*****	REPORT col/100mL	*****	E	GRAB	J	*****
51040 1 0.0											
BOD, Carbonaceous 05 Day, 20C	*****	*****	*****	*****	*****	REPORT mg/l	*****	E	GRAB	J	*****
80082 1 0.0											

* See Part II.C.1. (Bypass); Part II.C.2. (Upset)

** Monitoring Requirements

(1) Sample Location

I - Influent

E - Effluent

X - End Chlorine Contact Chamber

K - Percent Removal of the Monthly Avg. Influent Concentration from the Monthly Avg. Effluent Concentration.

RS - Receiving Stream

(5) See Part IV.F.3

(2) Sample Type:

CONTIN - Continuous

INSTAN - Instantaneous

COMP-8 - 8-Hour Composite

COMP24 - 24-Hour Composite

GRAB - Grab

CALCTD - Calculated

(3) Measurement Frequency: See also Part I.B.2.

A - 7 days per week

B - 5 days per week

C - 3 days per week

D - 2 days per week

E - 1 day per week

(4) Seasonal Limits:

S = Summer (May - November)

W = Winter (December - April)

ECS = E. coli Summer (June - September)

ECW = E. coli Winter (October - May)

Q - For Effluent Toxicity Testing, see Provision IV.B.

(6) See Part IV.C for Total Residual Chlorine (TRC). Monitoring for TRC is applicable if chlorine is utilized for disinfection purposes. If monitoring is not applicable during the monitoring period, enter "NOD=9" on the monthly DMR.

B. DISCHARGE MONITORING AND RECORD KEEPING REQUIREMENTS

1. Representative Sampling

Sample collection and measurement actions shall be representative of the volume and nature of the monitored discharge and shall be in accordance with the provisions of this permit. The effluent sampling point shall be at the nearest accessible location just prior to discharge and after final treatment, unless otherwise specified in the permit.

2. Measurement Frequency

Measurement frequency requirements found in Provision I.A. shall mean:

- a. Seven days per week shall mean daily.
- b. Five days per week shall mean any five days of discharge during a calendar weekly period of Sunday through Saturday.
- c. Three days per week shall mean any three days of discharge during a calendar week.
- d. Two days per week shall mean any two days of discharge during a calendar week.
- e. One day per week shall mean any day of discharge during a calendar week.
- f. Two days per month shall mean any two days of discharge during the month that are no less than seven days apart. However, if discharges occur only during one seven-day period in a month, then two days per month shall mean any two days of discharge during that seven day period.
- g. One day per month shall mean any day of discharge during the calendar month.
- h. Quarterly shall mean any day of discharge during each calendar quarter.
- i. The Permittee may increase the frequency of sampling, listed in Provisions I.B.2.a through I.B.2.h; however, all sampling results are to be reported to the Department.

3. Test Procedures

For the purpose of reporting and compliance, Permittees shall use one of the following procedures:

- a. For parameters with an EPA established Minimum Level (ML), report the measured value if the analytical result is at or above the ML and report "0" for values below the ML. Test procedures for the analysis of pollutants shall conform to 40 CFR Part 136 and guidelines published pursuant to Section 304(h) of the FWPCA, 33 U.S.C. Section 1314(h). If more than one method for analysis of a substance is approved for use, a method having a minimum level lower than the permit limit shall be used. If the minimum level of all methods is higher than the permit limit, the method having the lowest minimum level shall be used and a report of less than the minimum level shall be reported as zero and will constitute compliance, however should EPA approve a method with a lower minimum level during the term of this permit the Permittee shall use the newly approved method.
- b. For pollutants parameters without an established ML, an interim ML may be utilized. The interim ML shall be calculated as 3.18 times the Method Detection Level (MDL) calculated pursuant to 40 CFR Part 136, Appendix B.

Permittees may develop an effluent matrix-specific ML, where an effluent matrix prevents attainment of the established ML. However, a matrix specific ML shall be based upon proper laboratory method and technique. Matrix-specific MLs must be approved by the Department, and may be developed by the Permittee during permit issuance, reissuance, modification, or during compliance schedule.

In either case the measured value should be reported if the analytical result is at or above the ML and "0" reported for values below the ML.

- c. For parameters without an EPA established ML, interim ML, or matrix-specific ML, a report of less than the detection limit shall constitute compliance if the detection limit of all analytical methods is higher than the permit limit. For the purpose of calculating a monthly average, "0" shall be used for values reported less than the detection limit.

The Minimum Level utilized for procedures a and b above shall be reported on the Permittee's DMR. When an EPA approved test procedure for analysis of a pollutant does not exist, the Director shall approve the procedure to be used.

4. Recording of Results

For each measurement or sample taken pursuant to the requirements of this permit, the Permittee shall record the following information:

- a. The facility name and location, point source number, date, time and exact place of sampling;
- b. The name(s) of person(s) who obtained the samples or measurements;
- c. The dates and times the analyses were performed;
- d. The name(s) of the person(s) who performed the analyses;
- e. The analytical techniques or methods used, including source of method and method number; and
- f. The results of all required analyses.

5. Records Retention and Production

- a. The Permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by the permit, and records of all data used to complete the above reports or the application for this permit, for a period of at least three years from the date of the sample measurement, report or application. This period may be extended by request of the Director at any time. If litigation or other enforcement action, under the AWPCA and/or the FWPCA, is ongoing which involves any of the above records, the records shall be kept until the litigation is resolved. Upon the written request of the Director or his designee, the Permittee shall provide the Director with a copy of any record required to be retained by this paragraph. Copies of these records should not be submitted unless requested.
- b. All records required to be kept for a period of three years shall be kept at the permitted facility or an alternate location approved by the Department in writing and shall be available for inspection.

6. Reduction, Suspension or Termination of Monitoring and/or Reporting

- a. The Director may, with respect to any point source identified in Provision I.A. of this permit, authorize the Permittee to reduce, suspend or terminate the monitoring and/or reporting required by this permit upon the submission of a written request for such reduction, suspension or termination by the Permittee, supported by sufficient data which demonstrates to the satisfaction of the Director that the discharge from such point source will continuously meet the discharge limitations specified in Provision I.A. of this permit.
- b. It remains the responsibility of the Permittee to comply with the monitoring and reporting requirements of this permit until written authorization to reduce, suspend or terminate such monitoring and/or reporting is received by the Permittee from the Director.

7. Monitoring Equipment and Instrumentation

All equipment and instrumentation used to determine compliance with the requirements of this permit shall be installed, maintained, and calibrated in accordance with the manufacturer's instructions or, in the absence of manufacturer's instructions, in accordance with accepted practices. At a minimum, flow measurement devices shall be calibrated at least once every 12 months.

C. DISCHARGE REPORTING REQUIREMENTS

1. Reporting of Monitoring Requirements

- a. The Permittee shall conduct the required monitoring in accordance with the following schedule:
 - (1) **MONITORING REQUIRED MORE FREQUENTLY THAN MONTHLY AND MONTHLY** shall be conducted during the first full month following the effective date of coverage under this permit and every month thereafter.
 - (2) **QUARTERLY MONITORING** shall be conducted at least once during each calendar quarter. Calendar quarters are the periods of January through March, April through June, July through September, and October through December. The Permittee shall conduct the quarterly monitoring during the first complete calendar quarter following the effective date of this permit and is then required to monitor once during each quarter thereafter. Quarterly monitoring should be reported on the last DMR due for the quarter (i.e., March, June, September and December DMRs).

- (3) **SEMIANNUAL MONITORING** shall be conducted at least once during the period of January through June and at least once during the period of July through December. The Permittee shall conduct the semiannual monitoring during the first complete calendar semiannual period following the effective date of this permit and is then required to monitor once during each semiannual period thereafter. Semiannual monitoring may be done anytime during the semiannual period, unless restricted elsewhere in this permit, but it should be reported on the last DMR due for the month of the semiannual period (i.e., June and December DMRs).
- (4) **ANNUAL MONITORING** shall be conducted at least once during the period of January through December. The Permittee shall conduct the annual monitoring during the first complete calendar annual period following the effective date of this permit and is then required to monitor once during each annual period thereafter. Annual monitoring may be done anytime during the year, unless restricted elsewhere in this permit, but it should be reported on the December DMR.
- b. The Permittee shall submit discharge monitoring reports (DMRs) on the forms provided by the Department and in accordance with the following schedule:
 - (1) **REPORTS OF MORE FREQUENTLY THAN MONTHLY AND MONTHLY TESTING** shall be submitted on a monthly basis. The first report is due on the 28th day of the month following the month the permit becomes effective. The reports shall be submitted so that they are received by the Department no later than the 28th day of the month following the reporting period.
 - (2) **REPORTS OF QUARTERLY TESTING** shall be submitted on a quarterly basis. The first report is due on the 28th day of the month following the month the permit becomes effective. The reports shall be submitted so that they are received by the Department no later than the 28th day of the month following the reporting period.
 - (3) **REPORTS OF SEMIANNUAL TESTING** shall be submitted on a semiannual basis. The reports are due on the 28th day of JANUARY and the 28th day of JULY. The reports shall be submitted so that they are received by the Department no later than the 28th day of the month following the reporting period.
 - (4) **REPORTS OF ANNUAL TESTING** shall be submitted on an annual basis. Unless specified elsewhere in the permit, the first report is due on the 28th day of JANUARY. The reports shall be submitted so that they are received by the Department no later than the 28th day of the month following the reporting period.
- c. The DMR must be legible and bear an original signature. Photo and electronic copies of the signature are not acceptable and shall not satisfy the reporting requirements of this permit. If the Permittee, using approved analytical methods as specified in Provision I. B. 2. monitors any discharge from a point source for a limited substance identified in Provision I. A. of this permit more frequently than required by this permit, the results of such monitoring shall be included in the calculation and reporting of values on the DMR Form and the increased frequency shall be indicated on the DMR Form. In the event no discharge from a point source identified in Provision I. A. of this permit and described more fully in the Permittee's application occurs during a monitoring period, the Permittee shall report "No Discharge" for such period on the appropriate DMR Form.
- d. All reports and forms required to be submitted by this permit, the AWPCA and the Department's Rules and regulations, shall be signed by a "responsible official" of the Permittee as defined in ADEM Administrative Code Rule 335-6-6-.09 or a "duly authorized representative" of such official as defined in ADEM Administrative Code Rule 335-6-6-.09 and shall bear the following certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."
- e. The Permittee may certify in writing that a discharge will not occur for an extended period of time and after such certification shall not be required to submit monitoring reports. Written notification of a planned resumption of discharge shall be submitted at least 30 days prior to resumption of the discharge. If an unplanned resumption of discharge occurs, written notification shall be submitted within 7 days of the resumption. In any case, all discharges shall comply with all provisions of this permit.
- f. All reports and forms required to be submitted by this permit, the AWPCA and the Department's Rules, shall be addressed to:

**Alabama Department of Environmental Management
Municipal Section, Water Division**

**Post Office Box 301463
Montgomery, Alabama 36130-1463**

Certified and Registered Mail shall be addressed to:

**Alabama Department of Environmental Management
Municipal Section, Water Division
1400 Coliseum Boulevard
Montgomery, Alabama 36110-2059**

DMRs required to be submitted by this permit shall be addressed to:

**Alabama Department of Environmental Management
Environmental Data Section, Permits & Services Division
Post Office Box 301463
Montgomery, Alabama 36130-1463**

- g. If this permit is a reissuance, then the permittee shall continue to submit DMRs in accordance with the requirements of their previous permit until such time as DMRs are due as discussed in Part I.C.1.b. above.
2. Noncompliance Notification
- a. The Permittee must notify the Department if, for any reason, the Permittee's discharge:
- (1) Does not comply with any daily minimum or maximum discharge limitation for an effluent characteristic specified in Provision I. A. of this permit which is denoted by an "(X)"
 - (2) Potentially threatens human health or welfare,
 - (3) Threatens fish or aquatic life
 - (4) Causes an in-stream water quality criterion to be exceeded;
 - (5) Does not comply with an applicable toxic pollutant effluent standard or prohibition established under Section 307(a) of the FWPCA, 33 U.S.C. Section 1317(a);
 - (6) Contains a quantity of a hazardous substance that may be harmful to public health or welfare under Section 311(b)(4) of the FWPCA, 33 U.S.C. Section 1321(b)(4);
 - (7) Exceeds any discharge limitation for an effluent parameter listed in Part I.A as a result of an unanticipated bypass or upset; or
 - (8) Is an unpermitted direct or indirect discharge of a pollutant to a water of the state (Note that unpermitted discharges properly reported to the Department under any other requirement are not required to be reported under this provision)
- The Permittee shall orally report any of the above occurrences, describing the circumstances and potential effects, to the Department within 24-hours after the Permittee becomes aware of the occurrence of such discharge. In addition to the oral report, the Permittee shall submit a written report to the Director or Designee, as provided in Provision I.C.2.c, no later than five days after becoming aware of the occurrence of such discharge or occurrence.
- b. If for any reason, the Permittee's discharge does not comply with any limitation of this permit, then the Permittee must submit a written report to the Director or Designee, as provided in Provision I.C.2.c below. This report must be submitted with the next Discharge Monitoring Report required to be submitted by Provision I.C.1 of this permit after becoming aware of the occurrence of such noncompliance.
- c. Form 421 must be submitted to the Director or Designee in accordance with Provisions I.C.2.a. or b. The completed form must document the following information:
- (1) A description of the discharge and cause of noncompliance;
 - (2) The period of noncompliance, including exact dates, times, and duration of the noncompliance. If not corrected by the due date of the written report, then the Permittee is to state the anticipated timeframe that is expected to transpire before the noncompliance is resolved; and
 - (3) A description of the steps taken by the Permittee and the steps planned to be taken by the Permittee to reduce or eliminate the noncompliant discharge, including all steps taken to prevent recurrence.
- d. Immediate notification

The permittee shall provide notification to the Director, the public, the county health department, and any other affected entity such as public water systems, as soon as possible upon becoming aware of any notifiable sanitary sewer overflow. The Permittee shall also report notification of the noncompliance event to any other affected entity such as the public.

- e. The Permittee shall keep an updated record of all known wastewater discharge points that are not authorized as permitted outfalls, including but not limited to SSOs. The Permittee shall submit annual Municipal Water Pollution Prevention Plan (MWPP) reports to the Department each year by May 31st for the prior calendar year period beginning January 1st and ending December 31st. The Annual MWPP Reports shall contain a list of all known wastewater discharge points that are not authorized as permitted outfalls and any discharges that occur prior to the headworks of the wastewater treatment plant covered by this permit. The MWPP shall also provide a list of any discharges reported in accordance with Provision I.C.2.a. The Permittee shall submit with its Annual MWPP Report the following information for each known unpermitted discharge that occurs:
 - (1) The cause of the discharge;
 - (2) Date, duration and volume of discharge (estimate if unknown);
 - (3) Description of the source (e.g., manhole, lift station);
 - (4) Location of the discharge, by street address or any other appropriate method;
 - (5) The ultimate destination of the flow (e.g., surface waterbody, municipal separate storm sewer to surface waterbody). Location should be shown on a USGS quad sheet or copy thereof; and
 - (6) Corrective actions or plans to eliminate future discharges.
- f. The Permittee shall report SSO and other illicit or anomalous discharge events on Form 415 in accordance with Part I.C.2.a. This form is available on the ADEM web page or upon request from the Permittee.

D. OTHER REPORTING AND NOTIFICATION REQUIREMENTS

1. Anticipated Noncompliance

The Permittee shall give the Director written advance notice of any planned changes or other circumstances regarding a facility which may result in noncompliance with permit requirements.

2. Termination of Discharge

The Permittee shall notify the Director, in writing, when all discharges from any point source(s) identified in Provision I. A. of this permit have permanently ceased. This notification shall serve as sufficient cause for instituting procedures for modification or termination of the permit.

3. Updating Information

- a. The Permittee shall inform the Director of any change in the Permittee's mailing address or telephone number or in the Permittee's designation of a facility contact or office having the authority and responsibility to prevent and abate violations of the AWPCA, the Department's Rules and the terms and conditions of this permit, in writing, no later than ten (10) days after such change. Upon request of the Director or his designee, the Permittee shall furnish the Director with an update of any information provided in the permit application.
- b. If the Permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Director, it shall promptly submit such facts or information with a written explanation for the mistake and/or omission.

4. Duty to Provide Information

The Permittee shall furnish to the Director, within a reasonable time, any information which the Director or his designee may request to determine whether cause exists for modifying, revoking and re-issuing, suspending, or terminating this permit, in whole or in part, or to determine compliance with this permit.

E. SCHEDULE OF COMPLIANCE

1. Compliance with discharge limits

The Permittee shall achieve compliance with the discharge limitations specified in Provision I. A. in accordance with the following schedule:

COMPLIANCE SHALL BE ATTAINED ON THE EFFECTIVE DATE OF THIS PERMIT

2. Schedule

No later than 14 calendar days following a date identified in the above schedule of compliance, the permittee shall submit either a report of progress or, in the case of specific actions being required by identified dates, a written notice of compliance or noncompliance. In the latter case, the notice shall include the cause of noncompliance, any remedial actions taken, and the probability of meeting the next scheduled requirement.

3. Form 2F

Within 180 days from the effective date of this permit, the Permittee shall submit to the Department two completed copies of EPA Form 2F "Application for Permit to Discharge Storm Water Discharges Associated with Industrial Activity." This form is subject to ADEM approval and must designate all storm water outfalls with verified latitude and longitude locations. Discharge information for all storm water outfalls must also be included. A topographic map depicting the facility and storm water outfall locations must be attached with this form.

PART II OTHER REQUIREMENTS, RESPONSIBILITIES, AND DUTIES

A. OPERATIONAL AND MANAGEMENT REQUIREMENTS

1. Facilities Operation and Maintenance

The Permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the Permittee to achieve compliance with the conditions of the permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities only when necessary to achieve compliance with the conditions of the permit.

2. Best Management Practices (BMP)

- a. Dilution water shall not be added to achieve compliance with discharge limitations except when the Director or his designee has granted prior written authorization for dilution to meet water quality requirements.
- b. The Permittee shall prepare, implement, and maintain a Spill Prevention, Control and Countermeasures (SPCC) Plan in accordance with 40 C.F.R. Section 112 if required thereby.
- c. The Permittee shall prepare, submit for approval and implement a BMP Plan for containment of any or all process liquids or solids, in a manner such that these materials do not present a significant potential for discharge, if so required by the Director or his designee. When submitted and approved, the BMP Plan shall become a part of this permit and all requirements of the BMP Plan shall become requirements of this permit.

3. Certified Operator

The Permittee shall not operate any wastewater treatment plant unless the competency of the operator to operate such plant has been duly certified by the Director pursuant to AWPCA, and meets the requirements specified in ADEM Administrative Code, Rule 335-10-1.

B. OTHER RESPONSIBILITIES

1. Duty to Mitigate Adverse Impacts

The Permittee shall promptly take all reasonable steps to mitigate and minimize or prevent any adverse impact on human health or the environment resulting from noncompliance with any discharge limitation specified in Provision I. A. of this permit, including such accelerated or additional monitoring of the discharge and/or the receiving waterbody as necessary to determine the nature and impact of the noncomplying discharge.

2. Right of Entry and Inspection

The Permittee shall allow the Director, or an authorized representative, upon the presentation of proper credentials and other documents as may be required by law to:

- (1) Enter upon the Permittee's premises where a regulated facility or activity or point source is located or conducted, or where records must be kept under the conditions of the permit;
- (2) Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permits;
- (3) Inspect any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under the permit; and
- (4) Sample or monitor, for the purposes of assuring permit compliance or as otherwise authorized by the AWPCA, any substances or parameters at any location.

C. BYPASS AND UPSET

1. Bypass

- a. Any bypass is prohibited except as provided in b. and c. below:
- b. A bypass is not prohibited if:
 - (1) It does not cause any discharge limitation specified in Provision I. A. of this permit to be exceeded;
 - (2) It enters the same receiving stream as the permitted outfall; and
 - (3) It is necessary for essential maintenance of a treatment or control facility or system to assure efficient operation of such facility or system.

- c. A bypass is not prohibited and need not meet the discharge limitations specified in Provision I. A. of this permit if:
 - (1) It is unavoidable to prevent loss of life, personal injury, or severe property damage;
 - (2) There are no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime (this condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance); and
 - (3) The Permittee submits a written request for authorization to bypass to the Director at least ten (10) days prior to the anticipated bypass (if possible), the Permittee is granted such authorization, and the Permittee complies with any conditions imposed by the Director to minimize any adverse impact on human health or the environment resulting from the bypass.
 - d. The Permittee has the burden of establishing that each of the conditions of Provision II. C. 1. b. or c. have been met to qualify for an exception to the general prohibition against bypassing contained in a. and an exemption, where applicable, from the discharge limitations specified in Provision I. A. of this permit.
2. Upset
- a. A discharge which results from an upset need not meet the discharge limitations specified in Provision I. A. of this permit if:
 - (1) No later than 24-hours after becoming aware of the occurrence of the upset, the Permittee orally reports the occurrence and circumstances of the upset to the Director or his designee; and
 - (2) No later than five (5) days after becoming aware of the occurrence of the upset, the Permittee furnishes the Director with evidence, including properly signed, contemporaneous operating logs, or other relevant evidence, demonstrating that:
 - (i) An upset occurred;
 - (ii) The Permittee can identify the specific cause(s) of the upset;
 - (iii) The Permittee's facility was being properly operated at the time of the upset; and
 - (iv) The Permittee promptly took all reasonable steps to minimize any adverse impact on human health or the environment resulting from the upset.
 - b. The Permittee has the burden of establishing that each of the conditions of Provision II C. 2. a. of this permit have been met to qualify for an exemption from the discharge limitations specified in Provision I. A. of this permit.

D. DUTY TO COMPLY WITH PERMIT, RULES, AND STATUTES

- 1. Duty to Comply
 - a. The Permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the AWPCA and the FWPCA and is grounds for enforcement action, for permit termination, revocation and reissuance, suspension, modification, or denial of a permit renewal application.
 - b. The necessity to halt or reduce production or other activities in order to maintain compliance with the conditions of the permit shall not be a defense for a Permittee in an enforcement action.
 - c. The discharge of a pollutant from a source not specifically identified in the permit application for this permit and not specifically included in the description of an outfall in this permit is not authorized and shall constitute noncompliance with this permit.
 - d. The Permittee shall take all reasonable steps, including cessation of production or other activities, to minimize or prevent any violation of this permit or to minimize or prevent any adverse impact of any permit violation.
 - e. Nothing in this permit shall be construed to preclude or negate the Permittee's responsibility to apply for, obtain, or comply with other Federal, State, or Local Government permits, certifications, or licenses or to preclude from obtaining other federal, state, or local approvals, including those applicable to other ADEM programs and regulations.
- 2. Removed Substances

Solids, sludges, filter backwash, or any other pollutant or other waste removed in the course of treatment or control of wastewaters shall be disposed of in a manner that complies with all applicable Department Rules.

3. Loss or Failure of Treatment Facilities

Upon the loss or failure of any treatment facilities, including but not limited to the loss or failure of the primary source of power of the treatment facility, the Permittee shall, where necessary to maintain compliance with the discharge limitations specified in Provision I. A. of this permit, or any other terms or conditions of this permit, cease, reduce, or otherwise control production and/or all discharges until treatment is restored. If control of discharge during loss or failure of the primary source of power is to be accomplished by means of alternate power sources, standby generators, or retention of inadequately treated effluent, the Permittee must furnish to the Director within six months a certification that such control mechanisms have been installed.

4. Compliance With Statutes and Rules

- a. This permit has been issued under ADEM Administrative Code, Chapter 335-6-6. All provisions of this chapter, that are applicable to this permit, are hereby made a part of this permit. A copy of this chapter may be obtained for a small charge from the Office of General Counsel, Alabama Department of Environmental Management, 1400 Coliseum Boulevard Montgomery, Alabama 36110-2059.
- b. This permit does not authorize the noncompliance with or violation of any Laws of the State of Alabama or the United States of America or any regulations or rules implementing such laws. FWPCA, 33 U.S.C. Section 1319, and Code of Alabama 1975, Section 22-22-14.

E. PERMIT TRANSFER, MODIFICATION, SUSPENSION, REVOCATION, AND REISSUANCE

1. Duty to Reapply or Notify of Intent to Cease Discharge

- a. If the Permittee intends to continue to discharge beyond the expiration date of this permit, the Permittee shall file a complete permit application for reissuance of this permit at least 180 days prior to its expiration. If the Permittee does not intend to continue discharge beyond the expiration of this permit, the Permittee shall submit written notification of this intent which shall be signed by an individual meeting the signatory requirements for a permit application as set forth in ADEM Administrative Code Rule 335-6-6-.09.
- b. Failure of the Permittee to apply for reissuance at least 180 days prior to permit expiration will void the automatic continuation of the expiring permit provided by ADEM Administrative Code Rule 335-6-6-.06 and should the permit not be reissued for any reason any discharge after expiration of this permit will be an unpermitted discharge.

2. Change in Discharge

Prior to any facility expansion, process modification or any significant change in the method of operation of the Permittee's treatment works, the Permittee shall provide the Director with information concerning the planned expansion, modification or change. The Permittee shall apply for a permit modification at least 180 days prior to any facility expansion, process modification, any significant change in the method of operation of the Permittee's treatment works or other actions that could result in the discharge of additional pollutants or increase the quantity of a discharged pollutant or could result in an additional discharge point. This condition applies to pollutants that are or that are not subject to discharge limitations in this permit. No new or increased discharge may begin until the Director has authorized it by issuance of a permit modification or a reissued permit.

3. Transfer of Permit

This permit may not be transferred or the name of the Permittee changed without notice to the Director and subsequent modification or revocation and reissuance of the permit to identify the new Permittee and to incorporate any other changes as may be required under the FWPCA or AWPCA. In the case of a change in name, ownership or control of the Permittee's premises only, a request for permit modification in a format acceptable to the Director is required at least 30 days prior to the change. In the case of a change in name, ownership or control of the Permittee's premises accompanied by a change or proposed change in effluent characteristics, a complete permit application is required to be submitted to the Director at least 180 days prior to the change. Whenever the Director is notified of a change in name, ownership or control, he may decide not to modify the existing permit and require the submission of a new permit application.

4. Permit Modification and Revocation

- a. This permit may be modified or revoked and reissued, in whole or in part, during its term for cause, including but not limited to, the following:
 - (1) If cause for termination under Provision II. E. 5. of this permit exists, the Director may choose to revoke and reissue this permit instead of terminating the permit;
 - (2) If a request to transfer this permit has been received, the Director may decide to revoke and reissue or to modify the permit; or

- (3) If modification or revocation and reissuance is requested by the Permittee and cause exists, the Director may grant the request.
- b. This permit may be modified during its term for cause, including but not limited to, the following:
 - (1) If cause for termination under Provision II. E. 5. of this permit exists, the Director may choose to modify this permit instead of terminating this permit;
 - (2) There are material and substantial alterations or additions to the facility or activity generating wastewater which occurred after permit issuance which justify the application of permit conditions that are different or absent in the existing permit;
 - (3) The Director has received new information that was not available at the time of permit issuance and that would have justified the application of different permit conditions at the time of issuance;
 - (4) A new or revised requirement(s) of any applicable standard or limitation is promulgated under Sections 301(b)(2)(C), (D), (E), and (F), and 307(a)(2) of the FWPCA;
 - (5) Errors in calculation of discharge limitations or typographical or clerical errors were made;
 - (6) To the extent allowed by ADEM Administrative Code, Rule 335-6-6-.17, when the standards or regulations on which the permit was based have been changed by promulgation of amended standards or regulations or by judicial decision after the permit was issued;
 - (7) To the extent allowed by ADEM Administrative Code, Rule 335-6-6-.17, permits may be modified to change compliance schedules;
 - (8) To agree with a granted variance under 301(c), 301(g), 301(h), 301(k), or 316(a) of the FWPCA or for fundamentally different factors;
 - (9) To incorporate an applicable 307(a) FWPCA toxic effluent standard or prohibition;
 - (10) When required by the reopener conditions in this permit;
 - (11) When required under 40 CFR 403.8(e) (compliance schedule for development of pretreatment program);
 - (12) Upon failure of the state to notify, as required by Section 402(b)(3) of the FWPCA, another state whose waters may be affected by a discharge permitted by this permit;
 - (13) When required to correct technical mistakes, such as errors in calculation, or mistaken interpretations of law made in determining permit conditions; or
 - (14) When requested by the Permittee and the Director determines that the modification has cause and will not result in a violation of federal or state law, regulations or rules.

5. Termination

This permit may be terminated during its term for cause, including but not limited to, the following:

- a. Violation of any term or condition of this permit;
- b. The Permittee's misrepresentation or failure to disclose fully all relevant facts in the permit application or during the permit issuance process or the Permittee's misrepresentation of any relevant facts at any time;
- c. Materially false or inaccurate statements or information in the permit application or the permit;
- d. A change in any condition that requires either a temporary or permanent reduction or elimination of the permitted discharge;
- e. The Permittee's discharge threatens human life or welfare or the maintenance of water quality standards;
- f. Permanent closure of the facility generating the wastewater permitted to be discharged by this permit or permanent cessation of wastewater discharge;
- g. New or revised requirements of any applicable standard or limitation that is promulgated under Sections 301(b)(2)(C), (D), (E), and (F), and 307(a)(2) of the FWPCA that the Director determines cannot be complied with by the Permittee; or
- h. Any other cause allowed by the ADEM Administrative Code, Chapter 335-6-6.

6. Suspension

This permit may be suspended during its term for noncompliance until the Permittee has taken action(s) necessary to achieve compliance.

7. Stay

The filing of a request by the Permittee for modification, suspension or revocation of this permit, in whole or in part, does not stay any permit term or condition.

F. COMPLIANCE WITH TOXIC POLLUTANT STANDARD OR PROHIBITION

If any applicable effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is established under Section 307(a) of the FWPCA, 33 U.S.C. Section 1317(a), for a toxic pollutant discharged by the Permittee, and such standard or prohibition is more stringent than any discharge limitation on the pollutant specified in Provision I. A. of this permit or controls a pollutant not limited in Provision I. A. of this permit, this permit shall be modified to conform to the toxic pollutant effluent standard or prohibition, and the Permittee shall be notified of such modification. If this permit has not been modified to conform to the toxic pollutant effluent standard or prohibition before the effective date of such standard or prohibition, the Permittee shall attain compliance with the requirements of the standard or prohibition within the time period required by the standard or prohibition and shall continue to comply with the standard or prohibition until this permit is modified or reissued.

G. NOTICE TO DIRECTOR OF INDUSTRIAL USERS

1. The Permittee shall not allow the introduction of wastewater, other than domestic wastewater, from a new direct discharger prior to approval and permitting, if applicable, of the discharge by the Department.
2. The Permittee shall not allow an existing indirect discharger to increase the quantity or change the character of its wastewater, other than domestic wastewater, prior to approval and permitting, if applicable, of the increased discharge by the Department.
3. The Permittee shall report to the Department any adverse impact caused or believed to be caused by an indirect discharger on the treatment process, quality of discharged water, or quality of sludge. Such report shall be submitted within seven days of the Permittee becoming aware of the adverse impacts.

H. PROHIBITIONS

The Permittee shall not allow, and shall take effective enforcement action to prevent and terminate, the introduction of any of the following into its treatment works by industrial users:

1. Pollutants which create a fire or explosion hazard in the treatment works;
2. Pollutants which will cause corrosive structural damage to the treatment works, or dischargers with a pH lower than 5.0 s.u., unless the works are specifically designed to accommodate such discharges;
3. Solid or viscous pollutants in amounts which will cause obstruction of flow in sewers, or other interference with the treatment works;
4. Pollutants, including oxygen demanding pollutants, released in a discharge of such volume or strength as to cause interference in the treatment works;
5. Heat in amounts which will inhibit biological activity in the treatment plant resulting in interference or in such quantities that the temperature of the treatment plant influent exceeds 40°C (104° F) unless the treatment plant is designed to accommodate such heat; and
6. Pollutants in amounts which exceed any applicable pretreatment standard under Section 307 of FWPCA or any approved revisions thereof.

PART III ADDITIONAL REQUIREMENTS, CONDITIONS, AND LIMITATIONS

A. CIVIL AND CRIMINAL LIABILITY

1. Tampering

Any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained or performed under the permit shall, upon conviction, be subject to penalties as provided by the AWPCA.

2. False Statements

Any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance shall, upon conviction, be subject to penalties as provided by the AWPCA.

3. Permit Enforcement

- a. Any NPDES permit issued or reissued by the Department is a permit for the purpose of the AWPCA and the FWPCA, and as such, any terms, conditions, or limitations of the permit are enforceable under state and federal law.
- b. Any person required to have a NPDES permit pursuant to ADEM Administrative Code Chapter 335-6-6 and who discharges pollutants without said permit, who violates the conditions of said permit, who discharges pollutants in a manner not authorized by the permit, or who violates applicable orders of the Department or any applicable rule or standard of the Department, is subject to any one or combination of the following enforcement actions under applicable state statutes:
 - (1) An administrative order requiring abatement, compliance, mitigation, cessation, clean-up, and/or penalties;
 - (2) An action for damages;
 - (3) An action for injunctive relief; or
 - (4) An action for penalties.
- c. If the Permittee is not in compliance with the conditions of an expiring or expired permit the Director may choose to do any or all of the following provided the Permittee has made a timely and complete application for reissuance of the permit:
 - (1) Initiate enforcement action based upon the permit which has been continued;
 - (2) Issue a notice of intent to deny the permit reissuance. If the permit is denied, the owner or operator would then be required to cease the activities authorized by the continued permit or be subject to enforcement action for operating without a permit;
 - (3) Reissue the new permit with appropriate conditions; or
 - (4) Take other actions authorized by these rules and AWPCA.

4. Relief from Liability

Except as provided in Provision II. C. 1. (Bypass) and Provision II. C. 2. (Upset), nothing in this permit shall be construed to relieve the Permittee of civil or criminal liability under the AWPCA or FWPCA for noncompliance with any term or condition of this permit.

B. OIL AND HAZARDOUS SUBSTANCE LIABILITY

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the Permittee from any responsibilities, liabilities or penalties to which the Permittee is or may be subject under Section 311 of the FWPCA, 33 U.S.C. Section 1321.

C. PROPERTY AND OTHER RIGHTS

This permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to persons or property or invasion of other private rights, or any infringement of federal, state, or local laws or regulations, nor does it authorize or approve the construction of any physical structures or facilities or the undertaking of any work in any waters of the state or of the United States.

D. AVAILABILITY OF REPORTS

Except for data determined to be confidential under Code of Alabama 1975, Section 22-22-9(c), all reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Department. Effluent data shall not be considered confidential.

E. EXPIRATION OF PERMITS FOR NEW OR INCREASED DISCHARGES

1. If this permit was issued for a new discharger or new source, this permit shall expire eighteen months after the issuance date if construction of the facility has not begun during the eighteen-month period.
2. If this permit was issued or modified to allow the discharge of increased quantities of pollutants to accommodate the modification of an existing facility and if construction of this modification has not begun during the eighteen month period after issuance of this permit or permit modification, this permit shall be modified to reduce the quantities of pollutants allowed to be discharged to those levels that would have been allowed if the modification of the facility had not been planned.
3. Construction has begun when the owner or operator has:
 - a. Begun, or caused to begin as part of a continuous on-site construction program:
 - (1) Any placement, assembly, or installation of facilities or equipment; or
 - (2) Significant site preparation work including clearing, excavation, or removal of existing buildings, structures, or facilities which are necessary for the placement, assembly, or installation of new source facilities or equipment; or
 - b. Entered into a binding contractual obligation for the purpose of placement, assembly, or installation of facilities or equipment which are intended to be used in its operation within a reasonable time. Options to purchase or contracts which can be terminated or modified without substantial loss, and contracts for feasibility, engineering, and design studies do not constitute a contractual obligation under this paragraph.
4. Final plans and specifications for a waste treatment facility at a new source or new discharger, or a modification to an existing waste treatment facility must be submitted to and examined by the Department prior to initiating construction of such treatment facility by the Permittee.
5. Upon completion of construction of waste treatment facilities and prior to operation of such facilities, the Permittee shall submit to the Department a certification from a registered professional engineer, licensed to practice in the State of Alabama, that the treatment facilities have been built according to plans and specifications submitted to and examined by the Department.

F. COMPLIANCE WITH WATER QUALITY STANDARDS

1. On the basis of the Permittee's application, plans, or other available information, the Department has determined that compliance with the terms and conditions of this permit should assure compliance with the applicable water quality standards.
2. Compliance with permit terms and conditions notwithstanding, if the Permittee's discharge(s) from point sources identified in Provision I. A. of this permit cause or contribute to a condition in contravention of state water quality standards, the Department may require abatement action to be taken by the Permittee in emergency situations or modify the permit pursuant to the Department's Rules, or both.
3. If the Department determines, on the basis of a notice provided pursuant to this permit or any investigation, inspection or sampling, that a modification of this permit is necessary to assure maintenance of water quality standards or compliance with other provisions of the AWPCA or FWPCA, the Department may require such modification, and, in cases of emergency, the Director may prohibit the discharge until the permit has been modified.

G. GROUNDWATER

Unless specifically authorized by a permit issued by the Department, the discharge of pollutants to groundwater is prohibited. Should a threat of groundwater contamination occur, the Director may require groundwater monitoring to properly assess the degree of the problem, and the Director may require that the Permittee undertake measures to abate any such discharge and/or contamination.

H. DEFINITIONS

1. Average monthly discharge limitation – means the highest allowable average of "daily discharges" over a calendar month, calculated as the sum of all "daily discharges" measured during a calendar month divided by the number of "daily discharges" measured during that month (zero discharge days shall not be included in the number of "daily

discharges" measured and a less than detectable test result shall be treated as a concentration of zero if the most sensitive EPA approved method was used).

2. Average weekly discharge limitation - means the highest allowable average of "daily discharges" over a calendar week, calculated as the sum of all "daily discharges" measured during a calendar week divided by the number of "daily discharges" measured during that week (zero discharge days shall not be included in the number of "daily discharges" measured and a less than detectable test result shall be treated as a concentration of zero if the most sensitive EPA approved method was used).
3. Arithmetic Mean – means the summation of the individual values of any set of values divided by the number of individual values.
4. AWPCA – means the Alabama Water Pollution Control Act.
5. BOD – means the five-day measure of the pollutant parameter biochemical oxygen demand.
6. Bypass – means the intentional diversion of waste streams from any portion of a treatment facility.
7. CBOD – means the five-day measure of the pollutant parameter carbonaceous biochemical oxygen demand.
8. Daily discharge – means the discharge of a pollutant measured during any consecutive 24-hour period in accordance with the sample type and analytical methodology specified by the discharge permit.
9. Daily maximum – means the highest value of any individual sample result obtained during a day.
10. Daily minimum – means the lowest value of any individual sample result obtained during a day.
11. Day – means any consecutive 24-hour period.
12. Department – means the Alabama Department of Environmental Management.
13. Director – means the Director of the Department.
14. Discharge – means "[t]he addition, introduction, leaking, spilling or emitting of any sewage, industrial waste, pollutant or other waste into waters of the state". Code of Alabama 1975, Section 22-22-1(b)(9).
15. Discharge Monitoring Report (DMR) – means the form approved by the Director to accomplish reporting requirements of an NPDES permit.
16. DO – means dissolved oxygen.
17. 8HC – means 8-hour composite sample, including any of the following:
 - a. The mixing of at least 5 equal volume samples collected at constant time intervals of not more than 2 hours over a period of not less than 8 hours between the hours of 6:00 a.m. and 6:00 p.m. If the sampling period exceeds 8 hours, sampling may be conducted beyond the 6:00 a.m. to 6:00 p.m. period.
 - b. A sample continuously collected at a constant rate over period of not less than 8 hours between the hours of 6:00 a.m. and 6:00 p.m. If the sampling period exceeds 8 hours, sampling may be conducted beyond the 6:00 a.m. to 6:00 p.m. period.
18. EPA – means the United States Environmental Protection Agency.
19. FC – means the pollutant parameter fecal coliform.
20. Flow – means the total volume of discharge in a 24-hour period.
21. FWPCA – means the Federal Water Pollution Control Act.
22. Geometric Mean – means the Nth root of the product of the individual values of any set of values where N is equal to the number of individual values. The geometric mean is equivalent to the antilog of the arithmetic mean of the logarithms of the individual values. For purposes of calculating the geometric mean, values of zero (0) shall be considered one (1).
23. Grab Sample – means a single influent or effluent portion which is not a composite sample. The sample(s) shall be collected at the period(s) most representative of the discharge.
24. Indirect Discharger – means a nondomestic discharger who discharges pollutants to a publicly owned treatment works or a privately owned treatment facility operated by another person.
25. Industrial User – means those industries identified in the Standard Industrial Classification manual, Bureau of the Budget 1967, as amended and supplemented, under the category "Division D – Manufacturing" and such other classes of significant waste producers as, by regulation, the Director deems appropriate.

26. MGD – means million gallons per day.
27. Monthly Average – means the arithmetic mean of all the composite or grab samples taken for the daily discharges collected in one month period. The monthly average for flow is the arithmetic mean of all flow measurements taken in a one month period.
28. New Discharger – means a person, owning or operating any building, structure, facility or installation:
 - a. From which there is or may be a discharge of pollutants;
 - b. From which the discharge of pollutants did not commence prior to August 13, 1979, and which is not a new source; and
 - c. Which has never received a final effective NPDES permit for dischargers at that site.
29. NH₃-N – means the pollutant parameter ammonia, measured as nitrogen.
30. Notifiable sanitary sewer overflow – means an overflow, spill, release or diversion of wastewater from a sanitary sewer system that:
 - a. Reaches a surface water of the State; or
 - b. May imminently and substantially endanger human health based on potential for public exposure including but not limited to close proximity to public or private water supply wells or in areas where human contact would be likely to occur.
31. Permit application – means forms and additional information that is required by ADEM Administrative Code Rule 335-6-6-.08 and applicable permit fees.
32. Point source – means "any discernible, confined and discrete conveyance, including but not limited to any pipe, channel, ditch, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, or vessel or other floating craft, . . . from which pollutants are or may be discharged." Section 502(14) of the FWPCA, 33 U.S.C. Section 1362(14).
33. Pollutant – includes for purposes of this permit, but is not limited to, those pollutants specified in Code of Alabama 1975, Section 22-22-1(b)(3) and those effluent characteristics specified in Provision I. A. of this permit.
34. Privately Owned Treatment Works – means any devices or system which is used to treat wastes from any facility whose operator is not the operator of the treatment works, and which is not a "POTW".
35. Publicly Owned Treatment Works – means a wastewater collection and treatment facility owned by the State, municipality, regional entity composed of two or more municipalities, or another entity created by the State or local authority for the purpose of collecting and treating municipal wastewater.
36. Receiving Stream – means the "waters" receiving a "discharge" from a "point source".
37. Severe property damage – means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.
38. Significant Source – means a source which discharges 0.025 MGD or more to a POTW or greater than five percent of the treatment work's capacity, or a source which is a primary industry as defined by the U.S. EPA or which discharges a priority or toxic pollutant.
39. TKN – means the pollutant parameter Total Kjeldahl Nitrogen.
40. TON – means the pollutant parameter Total Organic Nitrogen.
41. TRC – means Total Residual Chlorine.
42. TSS – means the pollutant parameter Total Suspended Solids.
43. 24HC – means 24-hour composite sample, including any of the following:
 - a. The mixing of at least 12 equal volume samples collected at constant time intervals of not more than 2 hours over a period of 24 hours;
 - b. A sample collected over a consecutive 24-hour period using an automatic sampler composite to one sample. As a minimum, samples shall be collected hourly and each shall be no more than one twenty-fourth (1/24) of the total sample volume collected; or

- c. A sample collected over a consecutive 24-hour period using an automatic composite sampler composited proportional to flow.
- 44. Upset – means an exceptional incident in which there is an unintentional and temporary noncompliance with technology-based permit discharge limitations because of factors beyond the reasonable control of the Permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.
- 45. Waters – means "[a]ll waters of any river, stream, watercourse, pond, lake, coastal, ground, or surface water, wholly or partially within the state, natural or artificial. This does not include waters which are entirely confined and retained completely upon the property of a single individual, partnership, or corporation unless such waters are used in interstate commerce." Code of Alabama 1975, Section 22-22-1(b)(2). Waters "include all navigable waters" as defined in Section 502(7) of the FWPCA, 22 U.S.C. Section 1362(7), which are within the State of Alabama.
- 46. Week – means the period beginning at twelve midnight Saturday and ending at twelve midnight the following Saturday.
- 47. Weekly (7-day and calendar week) Average – is the arithmetic mean of all samples collected during a consecutive 7-day period or calendar week, whichever is applicable. The calendar week is defined as beginning on Sunday and ending on Saturday. Weekly averages shall be calculated for all calendar weeks with Saturdays in the month. If a calendar week overlaps two months (i.e., the Sunday is in one month and the Saturday in the following month), the weekly average calculated for the calendar week shall be included in the data for the month that contains the Saturday.

I. SEVERABILITY

The provisions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

PART IV SPECIFIC REQUIREMENTS, CONDITIONS, AND LIMITATIONS

A. SLUDGE MANAGEMENT PRACTICES

1. Applicability
 - a. Provisions of Provision IV.A. apply to a sewage sludge generated or treated in treatment works that is applied to agricultural and non-agricultural land, or that is otherwise distributed, marketed, incinerated, or disposed in landfills or surface disposal sites.
 - b. Provisions of Provision IV.A. do not apply to:
 - (1) Sewage sludge generated or treated in a privately owned treatment works operated in conjunction with industrial manufacturing and processing facilities and which receive no domestic wastewater.
 - (2) Sewage sludge that is stored in surface impoundments located at the treatment works prior to ultimate disposal.
2. Submitting Information
 - a. If applicable, the Permittee must submit annually with its Municipal Water Pollution Prevention (MWPP) report the following:
 - (1) Type of sludge stabilization/digestion method;
 - (2) Daily or annual sludge production (dry weight basis);
 - (3) Ultimate sludge disposal practice(s).
 - b. The Permittee shall provide sludge inventory data to the Director as requested. These data may include, but are not limited to, sludge quantity and quality reported in Provision IV.A.2.a as well as other specific analyses required to comply with State and Federal laws regarding solid and hazardous waste disposal.
 - c. The Permittee shall give prior notice to the Director of at least 30 days of any change planned in the Permittee's sludge disposal practices.
3. Reopener or Modification
 - a. Upon review of information provided by the Permittee as required by Provision IV.A.2. or, based on the results of an on-site inspection, the permit shall be subject to modification to incorporate appropriate requirements.
 - b. If an applicable "acceptable management practice" or if a numerical limitation for a pollutant in sewage sludge promulgated under Section 405 of FWPCA is more stringent than the sludge pollutant limit or acceptable management practice in this permit. This permit shall be modified or revoked or reissued to conform to requirements promulgated under Section 405. The Permittee shall comply with the limitations no later than the compliance deadline specified in applicable regulations as required by Section 405 of FWPCA.

B. EFFLUENT TOXICITY LIMITATIONS AND BIOMONITORING REQUIREMENTS – ACUTE DIFFUSER

The permittee shall perform 48-hour acute toxicity tests on the wastewater discharges required to be tested for acute toxicity by Part I of this permit.

1. Test Requirements
 - a. The samples shall be diluted using an appropriate control water, to the Instream Waste Concentration (IWC) which is 27 percent effluent. The IWC is the actual concentration of effluent, after mixing, in the receiving stream during a 1-day, 10-year flow period.
 - b. Any test where survival in the effluent concentration is less than 90% and statistically lower than the control indicates acute toxicity and constitutes noncompliance with this permit.
2. General Test Requirements:
 - a. A 24-hour composite sample shall be obtained for use in above biomonitoring tests. The holding time for each sample shall not exceed 36 hours. The control water shall be a water prepared in the laboratory in accordance with the EPA procedure described in EPA 821-R-02-012 or most current edition or another control water selected by the permittee and approved by the Department.
 - b. Effluent toxicity tests in which the control survival is less than 90% or in which the other requirements of the EPA Test Procedure are not met shall be unacceptable and the permittee shall rerun the tests as soon as practical within the monitoring period.
 - c. In the event of an invalid test, upon subsequent completion of a valid test, the results of all tests, valid and invalid, are reported with an explanation of the tests performed and results.
 - d. Toxicity tests shall be conducted for the duration of this permit in the months of February, May, August, and November.
3. Reporting Requirements:
 - a. The permittee shall notify the Department in writing within 48 hours after toxicity has been demonstrated by the scheduled test(s).

- b. Biomonitoring test results obtained during each monitoring period shall be summarized and reported using the appropriate Discharge Monitoring Report (DMR) form approved by the Department. In accordance with Section 2 of this part, an effluent toxicity report containing the information in Section 2 and 7 shall be included with the DMR. Two copies of the test results must be submitted to the Department no later than 28 days after the month in which the tests were performed.
4. Additional Testing Requirements:
- a. If acute toxicity is indicated (noncompliance with permit limit), the permittee shall perform four additional valid acute toxicity tests in accordance with these procedures to determine the extent and duration of the toxic condition. The toxicity tests shall be performed once per week and shall be performed during the first four calendar weeks following the date on which the permittee became aware of the permit noncompliance and the results of these tests shall be submitted no later than 28 days following the month in which the tests were performed.
 - b. After evaluation of the results of the follow-up tests, the Department will determine if additional action is appropriate and may require additional testing and/or toxicity reduction measures. The permittee may be required to perform a Toxicity Identification Evaluation (TIE) and/or a Toxicity Reduction Evaluation (TRE). The TIE/TRE shall be performed in accordance with the most recent protocols/guidance outlined by EPA (e.g., EPA/600/2-88/062, EPA/600/R-92/080, EPA/600/R-92/081, EPA/833/B-99/022 and/or EPA/600/6-91/005F, etc.).
5. Test Methods:
- The tests shall be performed in accordance with the latest edition of the "EPA Methods for Measuring the Acute Toxicity of Effluents to Freshwater and Marine Organisms" and shall be performed using the fathead minnow (*Pimephales promelas*) and the cladoceran (*Ceriodaphnia dubia*).
6. Effluent Toxicity Testing Reports
- The following information shall be submitted with each discharge monitoring report unless otherwise directed by the Department. The Department may at any time suspend or reinstate this requirement or may increase or decrease the frequency of submittals.
- a. Introduction
 - (1) Facility Name, location and county
 - (2) Permit number
 - (3) Toxicity testing requirements of permit
 - (4) Name of receiving water body
 - (5) Contract laboratory information (if tests are performed under contract)
 - (a) Name of firm
 - (b) Telephone number
 - (c) Address
 - (6) Objective of test
 - b. Plant Operations
 - (1) Discharge operating schedule (if other than continuous)
 - (2) Volume of discharge during sample collection to include Mean daily discharge on sample collection date (MGD, CFS, GPM)
 - (3) Design flow of treatment facility at time of sampling
 - c. Source of Effluent and Dilution Water
 - (1) Effluent samples
 - (a) Sampling point
 - (b) Sample collection dates and times (to include composite sample start and finish times)
 - (c) Sample collection method
 - (d) Physical and chemical data of undiluted effluent samples (water temperature, pH, alkalinity, hardness, specific conductance, total residual chlorine (if applicable), etc.)
 - (e) Sample temperature when received at the laboratory
 - (f) Lapsed time from sample collection to delivery
 - (g) Lapsed time from sample collection to test initiation
 - (2) Dilution Water Samples
 - (a) Source
 - (b) Collection date(s) and time(s) (where applicable)
 - (c) Pretreatment
 - (d) Physical and chemical characteristics (pH, hardness, water temperature, alkalinity, specific conductance, etc.)
 - d. Test Conditions
 - (1) Toxicity test method utilized
 - (2) End point(s) of test
 - (3) Deviations from referenced method, if any, and reason(s)
 - (4) Date and time test started

- (5) Date and time test terminated
 - (6) Type and volume of test chambers
 - (7) Volume of solution per chamber
 - (8) Number of organisms per test chamber
 - (9) Number of replicate test chambers per treatment
 - (10) Test temperature, pH and dissolved oxygen as recommended by the method (to include ranges)
 - (11) Feeding frequency, and amount and type of food
 - (12) Light intensity (mean)
- e. Test Organisms
- (1) Scientific name
 - (2) Life stage and age
 - (3) Source
 - (4) Disease treatment (if applicable)
- f. Quality Assurance
- (1) Reference toxicant utilized and source
 - (2) Date and time of most recent acute reference toxicant test(s), raw data, and current cusum chart(s)
 - (3) Dilution water utilized in reference toxicant test
 - (4) Results of reference toxicant test(s) (LC50, etc.), report concentration-response relationship and evaluate test sensitivity. The most recent reference toxicant test shall be conducted within 30-days of the routine.
 - (5) Physical and chemical methods utilized
- g. Results
- (1) Provide raw toxicity data in tabular form, including daily records of affected organisms in each concentration (including controls) and replicate
 - (2) Provide table of endpoints: LC50, NOEC, Pass/Fail (as required in the applicable NPDES permit)
 - (3) Indicate statistical methods used to calculate endpoints
 - (4) Provide all physical and chemical data required by method
 - (5) Results of test(s) (LC50, NOEC, Pass/Fail, etc.), report concentration-response relationship (definitive test only), report percent minimum significant difference (PMSD).
- h. Conclusions and Recommendations
- (1) Relationship between test endpoints and permit limits
 - (2) Action to be taken

1/ Adapted from "Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms", Fifth Edition, October 2002 (EPA 821-R-02-012), Section 12, Report Preparation

C. TOTAL RESIDUAL CHLORINE (TRC) REQUIREMENTS

1. If chlorine is not utilized for disinfection purposes, TRC monitoring under Part I of this Permit is not required. If TRC monitoring is not required, "NODI = 9" (conditional monitoring) should be reported on the DMR forms.
2. Testing for TRC shall be conducted according to either the amperometric titration method or the DPD colorimetric method as specified in Section 408(C) or (E), Standards Methods for the Examination of Water and Wastewater, 18th edition. If chlorine is not detected prior to actual discharge to the receiving stream using one of these methods (i.e., the analytical result is less than the detection level), the Permittee shall report on the DMR form "NODI = B" or "0". The Permittee shall then be considered to be in compliance with the daily maximum concentration limit for TRC.
3. This permit contains a maximum allowable TRC level in the effluent. The Permittee is responsible for determining the minimum TRC level needed in the chlorine contact chamber to comply with E.coli limits. The effluent shall be dechlorinated if necessary to meet the maximum allowable effluent TRC level.
4. The sample collection point for effluent TRC shall be at a point downstream of the chlorine contact chamber (downstream of dechlorination if applicable). The exact location is to be approved by the Director.

D. PLANT CLASSIFICATION

The Permittee shall report to the Director within 30 days of the effective date of this permit, the name, address and operator number of the certified wastewater operator in responsible charge of the facility. Unless specified elsewhere in this permit, this facility shall be classified in accordance with ADEM Admin. Code R. 335-10-1-.03.

E. POLLUTANT SCANS

The Permittee shall sample and analyze for the pollutants listed in 40 CFR 122 Appendix J Table 2. The Permittee shall provide data from a minimum of three samples collected within the four and one half years prior to submitting a permit application. Samples must be representative of the seasonal variation in the discharge from each outfall.

F. STORM WATER REQUIREMENTS

1. Prohibitions

- a. The Permittee shall not allow the discharge of non-storm water into permitted storm water outfall(s) unless said discharge is already subject to an NPDES permit.
- b. Pollutants removed in the course of treatment or control shall be disposed in a manner that complies with all applicable Department rules and regulations.

2. Operational and Management Practices

The permittee shall prepare and implement a Storm Water Pollution Prevention (SWPP) Plan within one year of the effective date of this permit.

- a. In the SWPP Plan, the Permittee shall:
 - (1) Assess the treatment plant site by developing and presenting site drainage maps, materials inventory, and best management operational practices. The plan shall also include a description of all spill or leak sources;
 - (2) Describe mechanisms and procedures to prevent the contact of sewage sludge, screenings, raw or partially treated wastewater, or any other waste product or pollutant with storm water discharged from the facility;
 - (3) Provide for daily inspection on workdays of any structures that function to prevent storm water pollution or that remove pollutants from storm water;
 - (4) Provide for daily inspection of the facility in general to ensure that the SWPP Plan is continually implemented and effective;
 - (5) Include a Best Management Practices (BMP) Plan that, as a minimum, addresses housekeeping, preventative maintenance, spill prevention and response, and non-storm water discharges;
 - (6) Describe mechanisms and procedures to provide sediment control sufficient to prevent or control storm water pollution storm water by particles resulting from soil or sediment migration from the site due to significant clearing, grading, or excavation activities;
 - (7) Designate by position or name the person or persons responsible for the day to day implementation of the SWPP Plan; and
 - (8) Bear the signature of an individual meeting signatory requirements as defined in ADEM Administrative Code, Rule 335-6-6-.09.
- b. The Director or his designee may notify the permittee at any time that the SWPP Plan is deficient and will require correction of the deficiency. The permittee shall correct any SWPP Plan deficiency identified by the Director or his designee within 30 days of receipt of notification and shall certify to the Department that the correction has been made and implemented.
- c. Administrative Procedures
 - (1) A copy of the SWPP Plan shall be maintained at the facility and shall be available for inspection by the Department.
 - (2) A log of daily inspections required by Provision IV.F.2.a.(3.) of the permit shall be maintained at the facility and shall be made available for inspection by the Department upon request. The log shall contain records of all inspections performed and each daily entry shall be signed by the person performing the inspection.
 - (3) The Permittee shall provide training for any personnel required to implement the SWPP Plan and shall retain documentation of such training at the facility. Training records for all personnel shall be available for inspection by the Department. Training shall be performed prior to the date implementation is required.

3. Monitoring Requirements

- a. Storm water discharged through each storm water outfall shall be sampled once per calendar year, using first flush grab samples (FFGS) collected during the first 30 minutes of discharge.
- b. The total volume of storm water discharged for the event must be monitored, including the date and duration (in hours) and rainfall (in inches) for the storm event(s) sampled. The duration between the storm event sampled and the end of the previous measurable (greater than 0.1 inch rainfall) storm event must be a minimum of 72 hours. This information must be recorded as part of the sampling procedure and records retained in accordance with Provision I.B.5. of this permit. The volume may be measured using flow measurement devices or may be estimated using any method approved in writing by the Department.

G. PERRY COUNTY ASSOCIATES LEACHATE RECORDKEEPING REQUIREMENTS

1. Records of all shipments of wastewater accepted from the Perry County Associates Landfill, that include the amount of wastewater accepted, the time and date of acceptance, and where the leachate is received (i.e. sludge pond, directly to the mechanical plant, etc.) shall be maintained and be available for inspection for a period of at least 3 years from the date the record was generated.
2. Records of the quantity, dates, and times, when wastewater from the sludge pond is routed to the mechanical plant shall be maintained and be available for inspection for a period of at least 3 years from the date the record was generated.

**ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
WATER DIVISION – INDUSTRIAL AND MUNICIPAL SECTIONS
NONCOMPLIANCE NOTIFICATION FORM**

PERMITTEE NAME: _____ PERMIT NO: _____
FACILITY LOCATION: _____
DMR REPORTING PERIOD: _____

1. DESCRIPTION OF DISCHARGE: (Include outfall number (s))
2. DESCRIPTION OF NON-COMPLIANCE: (Attach additional pages if necessary):

LIST EFFLUENT VIOLATIONS (If applicable)			
Outfall Number (s)	NONCOMPLIANCE PARAMETER(S)	Result Reported (Include units)	Permit Limit (Include units)

LIST MONITORING / REPORTING VIOLATIONS (If applicable)		
Outfall Number (s)	NONCOMPLIANCE PARAMETER(S)	Monitoring / Reporting Violation (Provide description)

3. CAUSE OF NON-COMPLIANCE (Attach additional pages if necessary):
4. PERIOD OF NONCOMPLIANCE: (Include exact date(s) and time(s) or, if not corrected, the anticipated time the noncompliance is expected to continue):
5. DESCRIPTION OF STEPS TAKEN AND/OR BEING TAKEN TO REDUCE OR ELIMINATE THE NONCOMPLYING DISCHARGE AND TO PREVENT ITS RECURRENCE (attach additional pages if necessary):

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

NAME AND TITLE OF RESPONSIBLE OFFICIAL (type or print)

SIGNATURE OF RESPONSIBLE OFFICIAL / DATE SIGNED

NPDES PERMIT RATIONALE

NPDES Permit No: AL0043168 Date: February 18, 2010

Permit Applicant: Demopolis Waterworks & Sewer Board
2101 Water Ave
Demopolis, Alabama 36732

Location: Demopolis WWTP
2101 Water Avenue
Demopolis, Alabama 36732

Draft Permit is: Initial Issuance:
Reissuance due to expiration: X
Modification of existing permit:
Revocation and Reissuance:

Basis for Limitations: Water Quality Model:
Reissuance with no modification: pH, CBOD5, NH3-N, TRC, TSS, TSS Removal
Instream calculation at 7Q10: 0.38% (27% CORMIX)
Toxicity based:
Secondary Treatment Levels: TSS, TSS % Removal
Other (described below): E. coli

Design Flow in Million Gallons per Day: 2.65 MGD

Description of Discharge: Outfall 0011; Storm Water Outfalls 003S & 004S;
Effluent discharges are to Tombigbee River, which is classified as Fish & Wildlife.

Discussion: This is a reissuance due to expiration of an existing NPDES permit. The discharge limits for CBOD, DO, and NH₃N were based upon an analysis by the Water Quality Branch dated February 16, 2010. The monthly average limits are as follows: CBOD = 15.0 mg/l and NH₃N = 10.0 mg/l. The minimum daily DO = 6.0 mg/l. The limits for these parameters for the previous permit were the same as for this permit.

The pH limits of 6.0 to 9.0 s.u. were developed to be supportive of the water-use classification of the receiving stream and consider available dilution. The Total Residual Chlorine (TRC) limit of 1.0 mg/L (daily maximum) is based on the current Toxicity Rationale considering available dilution and Best Professional Judgment that a maximum TRC limitation of 1.0 mg/L is achievable, although water quality would allow a less stringent limitation. The limits for these parameters for the previous permit were the same as for this permit.

The permittee uses ultraviolet radiation for disinfection. Monitoring for TRC is only applicable if chlorine is utilized for disinfection purposes. That is, while only ultraviolet disinfection is utilized, monitoring would not be applicable during the monitoring period, and "NODI=9" should be entered on the monthly DMR.

The Department recently proposed amending ADEM Administrative Code R.335-6-10-.09 to change the bacterial indicator organisms and associated criteria for non-coastal waters from fecal coliform to *Escherichia coli* (E. coli) to be consistent with the United States Environmental Protection Agency (EPA) recommendations for protection against water-borne illnesses. The Environmental Management Commission (EMC) has adopted these revised regulations, and it is anticipated that EPA will approve them in the near future; therefore, this permit includes limits for E. coli that are consistent with the proposed regulations. (If the revised regulations are not approved by EPA, the permit will be modified and re-noticed prior to issuance to include Fecal Coliform limits in accordance with the current regulations.)

The imposed E. coli limits were determined based on the water-use classification of the receiving stream considering available dilution. Since the Tombigbee River is classified as Fish & Wildlife, the limits for June – September are 467 col/100mL (monthly average) and 960 col/100mL (daily maximum), while the limits for October – May are 2030 col/100mL (monthly average) and 5000 col/100mL (daily maximum). The maximum E-coli limitations are based upon Best Professional Judgment in lieu of less stringent limitations calculated based upon the water quality criteria considering available dilution.

The TSS and TSS % removal limits of 30.0 mg/L and 85%, respectively, are based on the requirements of 40 CFR part 133.102 regarding Secondary Treatment. The CBOD % removal limit is not imposed because the imposed CBOD limit is significantly more stringent than the conventional secondary limit. The Permittee is also required to monitor and report effluent test results for Total Kjeldahl Nitrogen (TKN), Total Phosphorus (TP), and Nitrite plus Nitrate-Nitrogen (NO₂+NO₃-N). Monitoring for these nutrient-related parameters is imposed so that sufficient information will be available regarding the nutrient contribution from this point source, should it be necessary at some later time to impose nutrient limits on this discharge.

Toxicity testing is required because this is a major facility (>1 MGD) discharging to a water of the state with a Fish and Wildlife water-use classification. Acute toxicity testing is imposed because the stream dilution ratio is less than 1.0%. The testing is performed with two species (*Ceriodaphnia* and *Pimephales*). There are also industrial wastewater contributors. Acute toxicity testing is required on a quarterly basis at the calculated IWC of 27 percent. This IWC is based upon a CORMIX model performed by the Water Quality Branch on February 16, 2010, because the facility has a diffuser at the discharge. The IWC in the previous permit was 16 percent.

Because this facility is classified as a major facility, the Department completed a reasonable potential analysis (RPA) of the discharge based on laboratory data provided in the Permittee's application. The Department requested additional sampling and tests of the effluent and receiving stream while wastewater from the pond was being routed to the mechanical plant. (The permittee reports that all leachate is currently added to the pond.) The RPA indicates whether pollutants in treated effluent have the potential to contribute to excursions of Alabama's in-stream water quality standards. Based on the analytical data submitted by the Permittee, it appears that no reasonable potential exists to cause an in-stream water quality criteria exceedance for any of the tested pollutants. However, because of the expected presence of arsenic in the Perry County leachate that is being received, the Department is requiring weekly Total Recoverable Arsenic effluent monitoring to obtain additional data.

The frequency of monitoring for most parameters is three days per week. TSS % removal is to be reported monthly. Monitoring of TP, TKN, and NO₂+NO₃-N is to be conducted monthly. As mentioned above, Total Recoverable Arsenic is monitored weekly. Flow is to be monitored continuously, seven days per week.

The Permittee reported two storm water outfalls from the treatment plant. As part of the permit requirements, a complete Form 2F is to be submitted. Storm water monitoring will be required on an annual basis.

The Tombigbee River is a Tier I stream and is not listed on the most recent 303(d) list. There are no TMDLs affecting this discharge. The alternatives analysis requirements of the Antidegradation Rule, ADEM Administrative Code R.335-6-10-.04, do not apply to Tier I streams.

Prepared by: Wayne Rogers

JOHN P. HAGOOD
DIRECTOR



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BOB RILEY
GOVERNOR

February 10, 2010

MEMORANDUM

To: Wayne Rogers, Municipal Permit Section, NPDES Permit Branch
From: Brian Haigler, Technical Support Section, Water Quality Branch
Subject: Demopolis WWTP Waste Load Allocation

On January 14, 2010, the Municipal Permit Section requested an annual waste load allocation (WLA) for the Demopolis WWTP with respect to their domestic waste discharge (2.65 MGD) to the Tombigbee River. Based on review of our files, previous modeling has been conducted for this segment of the Tombigbee River, however, the models were developed many years ago and no modeling scenarios could be found that support the facility's current effluent limits.

Based on the aforementioned, the WQ Branch believes that the existing water quality model for this portion of the Tombigbee River needs to be updated to include several key data sets such as velocities, reservoir bathymetry, sediment oxygen demand, reaeration and decay rates as well as other pertinent data and information. In the interim, the WQ Branch believes the permit should be reissued with their previous CBOD₅ and NH₃-N limits until such information can be collected and the models updated. We feel confident these limits are protective of water quality standards especially considering that ambient monitoring of this portion of the Tombigbee River by ADEM and others has indicated dissolved oxygen levels are being attained.

The Tombigbee River has a Fish and Wildlife stream use classification at the Demopolis WWTP outfall located at NE ¼, S20, T18N, and R2E; Latitude 32.522210° N and Longitude -87.899379° W. The recommended annual effluent limits for the Demopolis WWTP are as follows:

Parameters	Annual Limits (from previous permit)
Design Flow, mgd	2.65
CBOD ₅ , mg/l	15
NH ₃ -N, mg/l	10
TKN, mg/l	-
Minimum D.O. mg/l	-

BCH/clj

Birmingham Branch
110 Vulcan Road
Birmingham, AL 35209-4702
(205) 942-6168
(205) 941-1603 (Fax)

Decatur Branch
2715 Sandlin Road, S.W.
Decatur, AL 35603-1333
(256) 353-1713
(256) 340-9359 (Fax)



Mobile Branch
2204 Perimeter Road
Mobile, AL 36615-1131
(251) 450-3400
(251) 479-2593 (Fax)

Mobile - Coastal
4171 Commanders Drive
Mobile, AL 36615-1421
(251) 432-6533
(251) 432-6598 (Fax)

Waste Load Allocation Summary

Comments included

☐ Yes ☒ No

General Information

Information
Verified By

BCH

Page 1

Receiving Stream Name Tombigbee River

Year File Was Created 1984

Previous File Name Lower Tombigbee River

OR: Local Name (If applicable)

Facility Name Demopolis WWTP

Previous Discharger Name

Or-AKA (includes previous file name)

11 Digit HUC Code 03160201030

12 Digit HUC Code 031602010401

River Basin Lower Tombigbee

County Marengo

Use Classification F&W

Print Record

Close Form

Date of WLA Response 2/16/2010

Discharge Latitude 32.52221

Lat/Long Method GPS

Discharge Longitude -87.89938

Approved TMDL?

Site Visit Completed? ☒ Yes ☐ No

☐ Yes ☒ No

Date of Site Visit 1/26/2010

Approval Date of TMDL

Waterbody Impaired? ☐ Yes ☒ No

Antidegradation ☐ Yes ☒ No

Permit Information

Waterbody Tier Level Tier I

Permit Number AL0043168

Use Support Category 3

Permit Status Active

Other Point Sources? ☐ Yes ☒ No

Sources Included in Model

Type of Discharger

- ☒ Municipal
- ☐ Industrial
- ☐ Semipublic/Private
- ☐ Mining

Waste Load Allocation Information

Modeled Reach Length Miles

Date of Allocation

Name of Model Used

Allocation Type

Model Completed by

Type of Model Used

Allocation Developed by

Waste Load Allocation Summary

Annual Effluent Limits	Conventional Parameters				Other Parameters					
	Qw	MGD	Qw	MGD	Qw	MGD	Qw	MGD		
Season			Season				Season			
From			From				From			
Through			Through				Through			
CBOD5	15		CBOD5		mg/L	TP		TP		
NH3-N	10		NH3-N		mg/L	TN		TN		
TKN			TKN			TSS		TSS		
D.O.			D.O.							

"Monitor Only" Parameters for Effluent:

Parameter	Frequency	Parameter	Frequency
TP	Monthly		
NO2+NO3-N	Monthly		
TKN	Monthly		

Water Quality Characteristics Immediately Upstream of Discharge

Parameter	Summer	Winter
CBODu	<input type="text"/> mg/l	<input type="text"/> mg/l
NH3-N	<input type="text"/> mg/l	<input type="text"/> mg/l
Temperature	<input type="text"/> °C	<input type="text"/> °C
pH	<input type="text"/> su	<input type="text"/> su

Hydrology at Discharge Location

Drainage Area Qualifier

Exact

Drainage Area	15385	sq mi
Stream 7Q10	1089	cfs
Stream 1Q10	817	cfs
Stream 7Q2	1996	cfs
Annual Average	23690	cfs

Method Used to Calculate

ADEM Estimate w/USGS Gage Data
75% of 7Q10
ADEM Estimate w/USGS Gage Data
ADEM Estimate w/USGS Gage Data

Comments and/or Notations

WQ Branch believes that the existing water quality model for this portion of the Tombigbee River needs to be updated to include several key data sets such as velocities, reservoir bathymetry, sediment oxygen demand, reaeration and decay rates as well as other pertinent data and information. In the interim, the WQ Branch believes the permit should be reissued with their previous CBOD5 and NH3-N limits until such information can be collected and the models updated. We feel confident these limits are protective of water quality standards especially considering that ambient monitoring of this portion of the Tombigbee River by ADEM and others

Mixing Zone Analysis Summary

Comments included

☒ Yes ☐ No

General Information

Page 1

Year File Was Started 2010

Information Verified By BCH

Date of MZ Response 2/16/2010

Name of Receiving Stream Tombigbee River

Previous file name: Or-AKA (If applicable)

Facility Name Demopolis WWTP

Previous Name of Discharger Or-AKA (If applicable)

11 Digit HUC Code USGS 03160201030

Other Point Sources? ☐ Yes ☒ No

12 Digit HUC Code 031602010301

Sources Included in the Model:

River Basin Lower Tombigbee

County Marengo

Use Classification F&W

Discharge Latitude 32.52221

Discharge Longitude -87.89938

Site Visit Completed? ☒ Yes ☐ No

Date of Site Visit 1/26/2010

Print Record

Close Form

Permit Information

Type of Discharger

☒ Municipal
☐ Industrial
☐ Semipublic/Private

Permit Number AL0043168

Permit Status Active

Hydrology

Drainage Area 15385 sq mi

Stream 7Q10 1089 cfs

Stream 1Q10 817 cfs

Stream 7Q2 1996 cfs

Method Used to Calculate

ADEM Estimate w/USGS Gage Data

ADEM Estimate w/USGS Gage Data

ADEM Estimate w/USGS Gage Data

Date of MZ Analysis 2/16/2010

Model Completed by Brian Haigler

Discharge Design Flow 2.65 MGD

Seasonal? ☐ Yes ☒ No

If not seasonal, only the summer sections will be used

Pollutant Category

Whole Effluent Toxicity (WET) ☒ Thermal ☐ Pathogens ☐

Mixing Zone Analysis Summary - Page 2

WET Parameters

Summer

Acute

Ambient Streamflow cfs
 ZID Length Meters
 ZID IWC %

Chronic

Ambient Streamflow cfs
 Mixing Zone Length Meters
 Mixing Zone IWC %

Winter

Acute

Ambient Streamflow cfs
 ZID Length Meters
 ZID IWC %

Chronic

Ambient Streamflow cfs
 Mixing Zone Length Meters
 Mixing Zone IWC %

Thermal Parameters

Summer

Ambient Streamflow cfs
 Mixing Zone Length Meters
 Max. Effluent Temp °C

Winter

Ambient Streamflow cfs
 Mixing Zone Length Meters
 Max. Effluent Temp °C

Pathogen Parameters

Summer

Ambient Streamflow cfs
 ZID Length Meters
 Max. Effluent Fecal Conc Cols/100 mls
 Max. Effluent Enterococci Conc (for coastal waters) Cols/100 mls

Winter

Ambient Streamflow cfs
 ZID Length Meters
 Max. Effluent Fecal Conc Cols/100 mls
 Max. Effluent Enterococci Conc (for coastal waters) Cols/100 mls

Comments and/or Notations

The Demopolis has a single diffuser. The diffuser has four ports. The ports are spaced 50 ft (15.2 m) apart. At the edge of the ZID (4.50 m) the width of the plum from one of the ports is 0.49 m. The plum width at the edge of the ZID is less than the port spacing, thus the individual plums have not merged. For this reason, in CORMIX, the diffusers have been modeled as four single port outfall

TOXICITY AND DISINFECTION RATIONALE

Facility Name:	Demopolis WWTP
NPDES Permit Number:	AL0043168
Receiving Stream:	Tombigbee River
Facility Design Flow (Q _w):	2.650 MGD
Receiving Stream 7Q ₁₀ :	1089.000 cfs
Receiving Stream 1Q ₁₀ :	816.750 cfs (Estimated at 0.75 * 7Q ₁₀)
Winter Headwater Flow (WHF):	1996.00 cfs
Summer Temperature for CCC:	30 deg. Celsius
Winter Temperature for CCC:	20 deg. Celsius
Headwater Background NH ₃ -N Level:	0.11 mg/l
Receiving Stream pH:	7.0 s.u.
Headwater Background FC Level (summer):	N./A. (Only applicable for facilities with diffusers.)
(winter)	N./A.

The Stream Dilution Ratio (SDR) is calculated using the 7Q₁₀ for all stream classifications.

$$\text{Stream Dilution Ratio (SDR)} = \frac{Q_w}{7Q_{10} + Q_w} = 0.38\%$$

AMMONIA TOXICITY LIMITATIONS

Toxicity-based ammonia limits are calculated in accordance with the *Ammonia Toxicity Protocol* and the *General Guidance for Writing Water Quality Based Toxicity Permits*.

If the Limiting Dilution is less than 1%, the waterbody is considered stream-dominated and the CMC applies.

If the Limiting Dilution is greater than 1%, the waterbody is considered effluent-dominated and the CCC applies.

$$\text{Limiting Dilution} = \frac{Q_w}{7Q_{10} + Q_w} = 0.38\% \quad \text{Stream-Dominated, CMC Applies}$$

$$\begin{aligned} \text{Criterion Maximum Concentration (CMC):} & \quad \text{CMC} = 0.411 / (1 + 10^{(7.204 - \text{pH})}) + 58.4 / (1 + 10^{(\text{pH} - 7.204)}) \\ \text{Criterion Continuous Concentration (CCC):} & \quad \text{CCC} = [0.0577 / (1 + 10^{(7.688 - \text{pH})}) + 2.487 / (1 + 10^{(\text{pH} - 7.688)})] * \text{Min}[2.85, 1.45 * 10^{(0.028 * (25 - T))}] \end{aligned}$$

	<u>CMC</u>	<u>CCC</u>
Allowable Summer Instream NH ₃ -N:	36.09 mg/l	2.18 mg/l
Allowable Winter Instream NH ₃ -N:	36.09 mg/l	4.15 mg/l

$$\begin{aligned} \text{Summer NH}_3\text{-N Toxicity Limit} &= \frac{[(\text{Allowable Instream NH}_3\text{-N}) * (7Q_{10} + Q_w)] - [(\text{Headwater NH}_3\text{-N}) * (7Q_{10})]}{Q_w} \\ &= 9593.1 \text{ mg/l NH}_3\text{-N at 7Q}_{10} \end{aligned}$$

$$\begin{aligned} \text{Winter NH}_3\text{-N Toxicity Limit} &= \frac{[(\text{Allowable Instream NH}_3\text{-N}) * (\text{WHF} + Q_w)] - [(\text{Headwater NH}_3\text{-N}) * (\text{WHF})]}{Q_w} \\ &= \text{N./A.} \end{aligned}$$

The ammonia limits established in the permit will be the lesser of the DO-based ammonia limit (from the wasteload allocation model) or the toxicity limits calculated above.

	<u>DO-based NH₃-N limit</u>	<u>Toxicity-based NH₃-N limit</u>
Summer	10.00 mg/l NH ₃ -N	9593.10 mg/l NH ₃ -N
Winter	N./A.	N./A.

Summer: The DO based limit of 10.00 mg/l NH₃-N applies.

Winter limits are not applicable.

TOXICITY TESTING REQUIREMENTS (REFERENCE: MUNICIPAL BRANCH TOXICITY PERMITTING STRATEGY)

The following factors trigger toxicity testing requirements:

1. Facility design flow is equal to or greater than 1.0 MGD (major facility).
2. There are significant industrial contributors (SID permits).

Acute toxicity testing is specified for A&I receiving streams, or for stream dilution ratios of 1% or less.

Chronic toxicity testing is specified for all other situations requiring toxicity testing.

Acute toxicity testing is required

Instream Waste Concentration (IWC) = Based on Cormix Model = **27.00%** Note: This number will be rounded up for toxicity testing purposes.

DISINFECTION REQUIREMENTS

Bacteria limits are required, and will be the water quality limit for the receiving stream, except where diffusers are used the limit may be adjusted for the dilution provided by the diffuser.

See the attached Disinfection Guidance for applicable stream standards.

(Non-coastal limits apply)

Applicable Stream Classification: **Fish & Wildlife**

Disinfection Type: **Chlorination**

Limit calculation method: **Limits adjusted for the dilution provided by the diffuser.**

	Stream Standard (colonies/100ml)	Effluent Limit (colonies/100ml)
<u>E. Coli (applies to Non-coastal and Shellfish Harvesting Coastal)</u>		
Monthly limit as monthly average (October through May):	548	2030
Monthly limit as monthly average (June through September):	126	467
Daily Max (October through May):	2507	5000
Daily Max (June through September):	487	960
<u>Enterococci (applies to Coastal)</u>		
Monthly limit as geometric mean (October through May):	Not applicable	Not applicable
Monthly limit as geometric mean (June through September):	Not applicable	Not applicable
Daily Max (October through May):	Not applicable	Not applicable
Daily Max (June through September):	Not applicable	Not applicable

MAXIMUM ALLOWABLE CHLORINATION LIMITS

Toxicity-based chlorine limits are calculated in accordance with the General Guidance for Writing Water Quality Based Toxicity Permits.

Chlorine has been shown to be acutely toxic at 0.019 mg/l and chronically toxic at 0.011 mg/l.

Maximum allowable TRC in effluent: 2.93 mg/l (chronic) (0.011)/(SDR)
Maximum allowable TRC in effluent: 5.07 mg/l (acute) (0.019)/(SDR)

NOTE: A maximum chlorine limit will be imposed such that the instream concentration will not exceed acutely toxic concentrations in A & I streams and chronically toxic concentrations in all other streams, but may not exceed 1.0 mg/l.

Prepared By: D. Wayne Rogers Date: 2/22/2010

Q _d *C _d + Q _{d2} *C _{d2} + Q _s *C _s = Q _r *C _r								Enter Max Daily Discharge as reported by Applicant (C _{max})	Enter Avg Daily Discharge as reported by Applicant (C _{avg})	Partition Coefficient (Stream / Lake)
ID	Pollutant	Carcinogen "yes"	Type	Background from upstream source (C _{d2}) Daily Max	Background from upstream source (C _{d2}) Monthly Ave	Background Instream (C _s) Daily Max	Background Instream (C _s) Monthly Ave	Discharge as reported by Applicant (C _{max})	Discharge as reported by Applicant (C _{avg})	Partition Coefficient (Stream / Lake)
1	Antimony		Metals	0	0	0	0	0	0	-
2	Arsenic**	YES	Metals	0	0	0	0	0	0	0.574
3	Beryllium		Metals	0	0	0	0	0	0	-
4	Cadmium**		Metals	0	0	0	0	0	0	0.236
5	Chromium / Chromium III**		Metals	0	0	0	0	0	0	0.210
6	Chromium / Chromium VI**		Metals	0	0	0	0	0	0	-
7	Copper**		Metals	0	0	0	0	0	0	0.388
8	Lead**		Metals	0	0	0	0	0	0	0.467
9	Mercury**		Metals	0	0	0	0	0	0	0.302
10	Nickel**		Metals	0	0	0	0	0	0	0.505
11	Selenium		Metals	0	0	0	0	0	0	-
12	Silver		Metals	0	0	0	0	0	0	-
13	Thallium		Metals	0	0	0	0	0	0	-
14	Zinc**		Metals	0	0	0	0	237	112	0.330
15	Cyanide		Metals	0	0	0	0	0	0	-
16	Total Phenolic Compounds		Metals	0	0	0	0	0	0	-
17	Hardness (As CaCO3)		Metals	0	0	0	0	126000	96500	-
18	Acrolein		VOC	0	0	0	0	0	0	-
19	Acrylonitrile*	YES	VOC	0	0	0	0	0	0	-
20	Aldrin	YES	VOC	0	0	0	0	0	0	-
21	Benazene*	YES	VOC	0	0	0	0	0	0	-
22	Bromoform*	YES	VOC	0	0	0	0	0	0	-
23	Carbon Tetrachloride*	YES	VOC	0	0	0	0	0	0	-
24	Chlordane	YES	VOC	0	0	0	0	0	0	-
25	Chlorobenzene		VOC	0	0	0	0	0	0	-
26	Chlorodibromo-Methane*	YES	VOC	0	0	0	0	0	0	-
27	Chloroethane		VOC	0	0	0	0	0	0	-
28	2-Chloro-Ethylvinyl Ether		VOC	0	0	0	0	0	0	-
29	ChloroForm*	YES	VOC	0	0	0	0	0	0	-
30	4,4'-DDD	YES	VOC	0	0	0	0	0	0	-
31	4,4'-DDE	YES	VOC	0	0	0	0	0	0	-
32	4,4'-DDT	YES	VOC	0	0	0	0	0	0	-
33	Dichlorobromo-Methane*	YES	VOC	0	0	0	0	0	0	-
34	1,1-Dichloroethane		VOC	0	0	0	0	0	0	-
35	1,2-Dichloroethane*	YES	VOC	0	0	0	0	0	0	-
36	Trans-1,2-Dichloro-Ethylene		VOC	0	0	0	0	0	0	-
37	1,1-Dichloroethylene*	YES	VOC	0	0	0	0	0	0	-
38	1,2-Dichloropropane		VOC	0	0	0	0	0	0	-
39	1,3-Dichloro-Propylene		VOC	0	0	0	0	0	0	-
40	Dieldrin	YES	VOC	0	0	0	0	0	0	-
41	Ethylbenzene		VOC	0	0	0	0	0	0	-
42	Methyl Bromide		VOC	0	0	0	0	0	0	-
43	Methyl Chloride		VOC	0	0	0	0	0	0	-
44	Methylene Chloride*	YES	VOC	0	0	0	0	0	0	-
45	1,1,1,2,2-Tetrachloro-Ethane*	YES	VOC	0	0	0	0	0	0	-
46	Tetrachloro-Ethylene*	YES	VOC	0	0	0	0	0	0	-
47	Toluene		VOC	0	0	0	0	0	0	-
48	Tosaphene	YES	VOC	0	0	0	0	0	0	-
49	Tributyltin (TBT)	YES	VOC	0	0	0	0	0	0	-
50	1,1,1-Trichloroethane		VOC	0	0	0	0	0	0	-
51	1,1,2-Trichloroethane*	YES	VOC	0	0	0	0	0	0	-
52	Trichloroethylene*	YES	VOC	0	0	0	0	0	0	-
53	Vinyl Chloride*	YES	VOC	0	0	0	0	0	0	-
54	2-Chloro-N-Cresol		Acids	0	0	0	0	0	0	-
55	Chlorophenol		Acids	0	0	0	0	0	0	-
56	2,4-Dichlorophenol		Acids	0	0	0	0	0	0	-
57	2,4-Dimethylphenol		Acids	0	0	0	0	0	0	-
58	4,6-Dinitro-O-Cresol		Acids	0	0	0	0	0	0	-
59	4-Dinitrophenol		Acids	0	0	0	0	0	0	-
60	4,6-Dinitro-2-methylphenol	YES	Acids	0	0	0	0	0	0	-
61	Dioxin (2,3,7,8-TCDD)	YES	Acids	0	0	0	0	0	0	-
62	Nitrophenol		Acids	0	0	0	0	0	0	-
63	4-Nitrophenol		Acids	0	0	0	0	0	0	-
64	Pentachlorophenol*	YES	Acids	0	0	0	0	0	0	-
65	Phenol		Acids	0	0	0	0	0	0	-
66	2,4,6-Trichlorophenol*	YES	Acids	0	0	0	0	0	0	-
67	Acephenylene		Bases	0	0	0	0	0	0	-
68	Acephenylene		Bases	0	0	0	0	0	0	-
69	Anthracene		Bases	0	0	0	0	0	0	-
70	Benidine		Bases	0	0	0	0	0	0	-
71	Benzo(A)Anthracene*	YES	Bases	0	0	0	0	0	0	-
72	Benzo(A)Pyrene*	YES	Bases	0	0	0	0	0	0	-
73	4-Benzo-Fluoranthene		Bases	0	0	0	0	0	0	-
74	Benzo(GH)Perylene		Bases	0	0	0	0	0	0	-
75	Benzo(K)Fluoranthene		Bases	0	0	0	0	0	0	-
76	Bis (2-Chloroethoxy) Methane		Bases	0	0	0	0	0	0	-
77	Bis (2-Chloroethyl)-Ether*	YES	Bases	0	0	0	0	0	0	-
78	Bis (2-Chloroisopropyl) Ether		Bases	0	0	0	0	0	0	-
79	Bis (2-Ethylhexyl) Phthalate*	YES	Bases	0	0	0	0	0	0	-
80	4-Bromophenyl Phenyl Ether		Bases	0	0	0	0	0	0	-
81	Butyl Benzyl Phthalate		Bases	0	0	0	0	0	0	-
82	2-Chloronaphthalene		Bases	0	0	0	0	0	0	-
83	4-Chlorophenyl Phenyl Ether		Bases	0	0	0	0	0	0	-
84	Chrysene*	YES	Bases	0	0	0	0	0	0	-
85	D-N-Butyl Phthalate		Bases	0	0	0	0	0	0	-
86	D-N-Octyl Phthalate		Bases	0	0	0	0	0	0	-
87	Dibenzo(A,H)Anthracene*	YES	Bases	0	0	0	0	0	0	-
88	1,2-Dichlorobenzene		Bases	0	0	0	0	0	0	-
89	1,3-Dichlorobenzene		Bases	0	0	0	0	0	0	-
90	1,4-Dichlorobenzene		Bases	0	0	0	0	0	0	-
91	3,3-Dichlorobenzene*	YES	Bases	0	0	0	0	0	0	-
92	Diethyl Phthalate		Bases	0	0	0	0	0	0	-
93	Dimethyl Phthalate		Bases	0	0	0	0	0	0	-
94	2,4-Dinitrotoluene*	YES	Bases	0	0	0	0	0	0	-
95	6-Dinitrotoluene		Bases	0	0	0	0	0	0	-
96	1,2-Diphenylhydrazine		Bases	0	0	0	0	0	0	-
97	Endosulfan (alpha)	YES	Bases	0	0	0	0	0	0	-
98	Endosulfan (beta)	YES	Bases	0	0	0	0	0	0	-
99	Endosulfan sulfate	YES	Bases	0	0	0	0	0	0	-
100	Endrin	YES	Bases	0	0	0	0	0	0	-
101	Endrin Aldehyde	YES	Bases	0	0	0	0	0	0	-
102	Fluorene		Bases	0	0	0	0	0	0	-
103	Fluorene		Bases	0	0	0	0	0	0	-
104	Heptachlor	YES	Bases	0	0	0	0	0	0	-
105	Heptachlor Epoxide	YES	Bases	0	0	0	0	0	0	-
106	Hexachlorobenzene*	YES	Bases	0	0	0	0	0	0	-
107	Hexachlorobutadiene*	YES	Bases	0	0	0	0	0	0	-
108	Hexachlorocyclohexan (alpha)	YES	Bases	0	0	0	0	0	0	-
109	Hexachlorocyclohexan (beta)	YES	Bases	0	0	0	0	0	0	-
110	Hexachlorocyclohexan (gamma)	YES	Bases	0	0	0	0	0	0	-
111	Hexachlorocyclopentadiene		Bases	0	0	0	0	0	0	-
112	Hexachloroethane		Bases	0	0	0	0	0	0	-
113	Indeno(1,2,3-CD)Pyrene*	YES	Bases	0	0	0	0	0	0	-
114	Isophorone		Bases	0	0	0	0	0	0	-
115	Naphthalene		Bases	0	0	0	0	0	0	-
116	Nitrobenzene		Bases	0	0	0	0	0	0	-
117	N-Nitrosodi-N-Propylamine*	YES	Bases	0	0	0	0	0	0	-
118	N-Nitrosodi-N-Methylamine*	YES	Bases	0	0	0	0	0	0	-
119	N-Nitrosodi-N-Phenylamine*	YES	Bases	0	0	0	0	0	0	-
120	PCB-1016	YES	Bases	0	0	0	0	0	0	-
121	PCB-1221	YES	Bases	0	0	0	0	0	0	-
122	PCB-1232	YES	Bases	0	0	0	0	0	0	-
123	PCB-1242	YES	Bases	0	0	0	0	0	0	-
124	PCB-1248	YES	Bases	0	0	0	0	0	0	-
125	PCB-1254	YES	Bases	0	0	0	0	0	0	-
126	PCB-1260	YES	Bases	0	0	0	0	0	0	-
127	Phenanthrene		Bases	0	0	0	0	0	0	-
128	Pyrene		Bases	0	0	0	0	0	0	-
129	1,2,4-Trichlorobenzene		Bases	0	0	0	0	0	0	-

2.65	Enter Q _d = wastewater discharge flow from facility (MGD)
4.100157	Q _s = wastewater discharge flow (cfs) (this value is calculated from the MGD)
0	Enter or estimated, Q _{d2} = background stream flow from upstream source (cfs)
1089	Enter TQ10, Q _s = background stream flow in cfs above point of discharge
817	Enter or estimated, TQ10, Q _s = background stream flow in cfs above point of discharge (TQ10 estimated at 75% of TQ10)
0	Enter flow from upstream discharge Q _{d2} = background stream flow in MGD above point of discharge
23690	Enter Mean Annual Flow, Q _s = background stream flow in cfs above point of discharge
1996	Enter TQ2, Q _s = background stream flow in cfs above point of discharge (For LWF class streams)
Enter to Left	Enter C _s = background in-stream pollutant concentration in µg/l (assuming this is zero "0" unless there is data)
Q _s + Q _{d2} - Q _d	Q _s = resultant in-stream flow, after discharge
discharge or other sheets	C _s = resultant in-stream pollutant concentration in µg/l in the stream (after complete mixing occurs)
50	Enter: Background Hardness above point of discharge (assumed 50 South of Birmingham and 100 North of Birmingham)
7.00 s.u.	Enter: Background pH above point of discharge
YES	Enter: Is discharge to a stream? "YES" Other option would be to a Lake. (This changes the partition coefficients for the metals)

** Using Partition Coefficients

February 22, 2010

Modified: 8/4/09

Facility Name: Demopolis WWTP																			
NPDES No. AL0043168																			
Freshwater F&W classification										Human Health Consumption Fish only (µg/l)									
Freshwater Acute (µg/l) Q _a = 1Q10										Freshwater Chronic (µg/l) Q _a = 7Q10									
Carcinogen Q _a = Annual Average										Non-Carcinogen Q _a = 7Q10									
ID	Pollutant	RP?	Carcinogen yes	Background from upstream source (C ₅₀) Daily Max	Max Daily Discharge as reported by Applicant (C _{max})	Water Quality Criteria (C ₁)	Draft Permit Limit (C _{max})	20% of Draft Permit Limit	RP?	Background from upstream source (C ₅₀) Monthly Ave	Avg Daily Discharge as reported by Applicant (C _{avg})	Water Quality Criteria (C ₁)	Draft Permit Limit (C _{avg})	20% of Draft Permit Limit	RP?	Water Quality Criteria (C ₁)	Draft Permit Limit (C _{avg})	20% of Draft Permit Limit	RP?
1	Antimony			0	0					0	0					3.73E+02	9.95E+04	1.99E+04	No
2	Arsenic		YES	0	0	592.334	118621.303	23724.261	No	0	0	261.324	59668.884	13933.777	No	3.03E-01	1.75E+03	3.50E+02	No
3	Beryllium			0	0					0	0								No
4	Cadmium			0	0	4.347	870.556	174.112	No	0	0	0.644	171.586	34.317	No				No
5	Chromium Chromium III			0	0	1537.913	307983.470	61596.684	No	0	0	200.051	53333.482	10666.696	No				No
6	Chromium Chromium VI			0	0	16.000	3204.171	640.834	No	0	0	11.000	2932.596	586.519	No				No
7	Copper			0	0	18.026	3609.974	721.995	No	0	0	12.786	3403.295	680.659	No	1.30E+03	3.47E+05	6.93E+04	No
8	Lead			0	0	64.531	12922.994	2584.599	No	0	0	2.515	670.411	134.082	No				No
9	Mercury			0	0	2.400	480.626	96.125	No	0	0	0.012	3.199	0.640	No	4.24E-02	1.13E+01	2.28E+00	No
10	Nickel			0	0	515.824	103299.331	20659.868	No	0	0	57.292	15274.067	3054.813	No	9.93E+02	2.65E+05	5.29E+04	No
11	Selenium			0	0	20.000	4005.213	801.043	No	0	0	5.000	1332.998	266.600	No	2.43E+03	6.48E+05	1.30E+05	No
12	Silver			0	0	0.975	195.543	39.109	No	0	0								No
13	Thallium			0	0					0	0					2.74E-01	7.29E+01	1.48E+01	No
14	Zinc			237	197.369	39525.210	7905.042	No	No	112	108.983	53048.861	10609.772	No	1.49E+04	3.97E+06	7.94E+05	No	
15	Cyanide			0	0	22.000	4405.735	881.147	No	0	0	5.200	1386.318	277.264	No	9.33E+03	2.49E+06	4.98E+05	No
16	Total Phenolic Compounds			0	0					0	0								No
17	Hardness (As CaCO3)			0	126000					99800									No
18	Acrolein			0	0					0	0					5.43E+00	1.45E+03	2.89E+02	No
19	Acrylonitrile		YES	0	0					0	0					1.44E-01	8.32E+02	1.66E+02	No
20	Aldrin		YES	0	0	3.000	600.782	120.156	No	0	0	1.300	346.579	69.316	No	2.94E-05	1.70E-01	3.40E-02	No
21	Benzene		YES	0	0					0	0					1.55E+01	8.94E+04	1.79E+04	No
22	Bromofom		YES	0	0					0	0					7.88E+01	4.52E+05	9.10E+04	No
23	Carbon Tetrachloride		YES	0	0					0	0					9.57E-01	5.53E+03	1.11E+03	No
24	Chlordane		YES	0	0	2.400	480.626	96.125	No	0	0	0.004	1.146	0.229	No	4.73E-04	2.73E+00	5.46E-01	No
25	Chlorobenzene			0	0					0	0					9.06E+02	2.42E+05	4.83E+04	No
26	Chlorodibromo-Methane		YES	0	0					0	0					7.41E+00	4.28E+04	8.56E+03	No
27	Chloroethane			0	0					0	0								No
28	Chloro-Ethylvinyl Ether			0	0					0	0								No
29	Chloroform		YES	0	0					0	0					1.02E+02	5.89E+05	1.18E+05	No
30	4,4'- DDE		YES	0	0					0	0					1.81E-04	1.05E+00	2.10E-01	No
31	4,4'- DDE		YES	0	0					0	0					1.28E-04	7.40E-01	1.48E-01	No
32	4,4'- DDT		YES	0	0					0	0					1.28E-04	7.40E-01	1.48E-01	No
33	Dichlorobromo-Methane		YES	0	0					0	0					1.00E+01	5.80E+04	1.16E+04	No
34	1,1-Dichloroethane			0	0					0	0								No
35	1,2-Dichloroethane		YES	0	0					0	0					2.14E+01	1.23E+05	2.47E+04	No
36	Trans-1,2-Dichloro-Ethylene			0	0					0	0					5.91E+03	1.57E+06	3.15E+05	No
37	1,1-Dichloroethylene		YES	0	0					0	0					4.17E+03	2.41E+07	4.82E+06	No
38	1,2-Dichloropropane			0	0					0	0					8.49E+00	2.26E+03	4.52E+02	No
39	1,3-Dichloro-Propylene			0	0					0	0					1.23E+01	3.27E+03	6.55E+02	No
40	Dieldrin		YES	0	0	0.240	48.063	9.613	No	0	0	0.056	14.930	2.986	No	3.12E-05	1.80E-01	3.61E-02	No
41	Ethylbenzene			0	0					0	0					1.34E+03	3.32E+05	6.64E+04	No
42	Methyl Bromide			0	0					0	0					8.71E+02	2.32E+05	4.64E+04	No
43	Methyl Chloride			0	0					0	0								No
44	Methylene Chloride		YES	0	0					0	0					3.46E+02	2.08E+06	4.00E+05	No
45	1,1,2,2-Tetrachloro-Ethane		YES	0	0					0	0					2.33E+00	1.35E+01	2.70E+03	No
46	Tetrachloro-Ethylene		YES	0	0					0	0					1.92E+00	1.11E+04	2.22E+03	No
47	Toluene			0	0					0	0					8.72E+03	2.33E+06	4.65E+05	No
48	Toxaphene		YES	0	0	0.730	146.190	29.238	No	0	0	0.0002	0.053	0.011	No	1.62E-04	9.38E-01	1.87E-01	No
49	Tributyltin (TBT)		YES	0	0	0.480	92.120	18.424	No	0	0	0.072	19.195	3.839	No				No
50	1,1,1-Trichloroethane			0	0					0	0								No
51	1,1,2-Trichloroethane		YES	0	0					0	0					9.10E+00	5.25E+04	1.05E+04	No
52	Trichloroethylene		YES	0	0					0	0					1.75E+01	1.01E+05	2.02E+04	No
53	Vinyl Chloride		YES	0	0					0	0					1.42E+00	8.23E+03	1.65E+03	No
54	p-Chloro-m-Cresol			0	0					0	0								No
55	2-Chlorophenol			0	0					0	0					8.71E+01	2.32E+04	4.64E+03	No
56	4-Dichlorophenol			0	0					0	0					1.72E+02	4.59E+04	9.17E+03	No
57	4-Dimethylphenol			0	0					0	0					4.98E+02	1.33E+05	2.65E+04	No
58	4-Dinitro-O-Cresol			0	0					0	0								No
59	4-Dinitrophenol			0	0					0	0					3.11E+03	8.29E+05	1.68E+05	No
60	4-Dinitro-2-methylphenol		YES	0	0					0	0					1.65E+02	9.56E+05	1.91E+05	No
61	Diomer (2,3,7,8-TCDD)		YES	0	0					0	0					2.67E-08	1.54E-04	3.08E-05	No
62	Nitrophenol			0	0					0	0								No
63	Nitrophenol			0	0					0	0								No
64	Pentachlorophenol		YES	0	0	8.723	1746.938	349.388	No	0	0	6.693	1764.240	356.848	No	1.77E+00	1.02E+04	2.04E+03	No
65	Phenol			0	0					0	0					5.00E+05	1.33E+08	2.67E+07	No
66	2,4,6-Trichlorophenol		YES	0	0					0	0					1.41E+00	8.17E+03	1.63E+03	No
67	Acenaphthene			0	0					0	0					5.79E+02	1.54E+05	3.08E+04	No
68	Acenaphthylene			0	0					0	0								No
69	Anthracene			0	0					0	0					2.33E+04	6.22E+06	1.24E+06	No
70	Benidine			0	0					0	0					1.18E-04	3.95E-02	6.18E-03	No
71	Benzo(A)Anthracene		YES	0	0					0	0					1.07E-02	6.18E-01	1.23E-01	No
72	Benzo(A)Pyrene		YES	0	0					0	0					1.07E-02	6.18E-01	1.23E-01	No
73	4-Benzo-Fluoranthene			0	0					0	0					1.07E-02	2.84E+00	5.68E-01	No
74	Benzo(GH)Perylene			0	0					0	0			</					

FACT SHEET
APPLICATION FOR
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
PERMIT TO DISCHARGE TREATED WASTEWATERS
TO WATERS OF THE STATE OF ALABAMA

Date: February 10, 2010

Prepared By: Wayne Rogers

NPDES Permit No. AL0043168

1. SYNOPSIS OF APPLICATION

a. Name and Address of Applicant and Location if Different From Mailing Address

Applicant Name and Address:

DEMOPOLIS WATERWORKS & SEWER
BOARD
2101 WATER AVE
DEMOPOLIS AL 36732

Facility Location:

Demopolis WWTP
2101 Water Avenue
Demopolis, Alabama 36732

b. Description of Applicant's Facility or Activity Generating the Discharge

Municipal Wastewater Treatment Plant

For the Outfall latitude and longitude see the permit application

c. Applicant's Receiving Waters

Receiving Waters

Tombigbee River

Classification

Tombigbee River F&W

d. Quantitative Description of Proposed Discharges

See attached draft permit and permit application

2. PROPOSED DISCHARGE LIMITATIONS

See attached draft permit

3. STATEMENT OF BASIS FOR PERMIT LIMITATIONS

See attached permit rationale

4. PROCEDURES FOR THE FORMULATION OF FINAL DETERMINATIONS

a. Comment Period

The Alabama Department of Environmental Management proposes to issue an NPDES permit to this applicant subject to the effluent limitations and special conditions outlined above. These determinations are tentative.

Interested persons are invited to submit written comments on the permit application or on proposed determinations to the following address:

Russell A. Kelly, Chief
Permits and Services Division
Alabama Department of Environmental Management
1400 Coliseum Blvd
(Mailing Address: Post Office Box 301463; Zip 36130-1463)
Montgomery, Alabama 36110-2059
(334) 271-7714

All comments received prior to the closure of the public notice period (see attached public notice) will be considered in the formulation of final determinations with regard to this application.

b. Public Hearing

A written request for a public hearing may also be filed with the public notice period and must state the nature of the issues proposed to be raised in the hearing. The Director shall hold a public hearing whenever it is found, on the basis of hearing requests, that there exists a significant degree of public interest in the permit application or draft permit or group of permits. A request for a hearing should be filed with the Department at the following address:

Russell A. Kelly, Chief
Permits and Services Division
Alabama Department of Environmental Management
1400 Coliseum Blvd
(Mailing Address: Post Office Box 301463; Zip 36130-1463)
Montgomery, Alabama 36110-2059
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The Director may hold a public hearing if he determines that useful information and data may be obtained thereby. Public notice of such a hearing will be published at least 30 days prior to the hearing in a newspaper having general circulation in the geographical area of the discharge and will be sent to those on the ADEM mailing list at least thirty days prior to the hearing.

c. Issuance of the Permit

Upon the expiration of the comment period and, if applicable, completion of the public hearing process a response to all significant comments will be prepared. After consideration of all comments received during the notice period or as the result of a public hearing, the response to comments, and of the requirements of the Alabama Water Pollution Control Act and appropriate regulations, the Director will make a final decision regarding permit issuance. **The permit record, including the response to comments, will be available to the public and an appointment to review the record may be made by writing the Permits and Services Division at the above address.**

Unless a request for a stay of a permit or permit provision is granted, the proposed permit contained in the Director's determination shall be issued and effective; and will be the final action of the Alabama Department of Environmental Management.

d. Appeal Procedures

Any person adversely affected by the Director's final decision may submit an appeal or a request for a stay of the permit or one or more provisions of the permit. Such requests should be received by the

Environmental Management Commission within thirty days of issuance of the permit. Requests should be submitted to the Chairperson at the following address:

Alabama Environmental Management Commission
1400 Coliseum Blvd
(Mailing Address: Post Office Box 301463; Zip 36130-1463)
Montgomery, Alabama 36110-2059

All requests must:

- (i) State the name, mailing address and telephone number of the person making such request;
- (ii) Identify the interest of the appellant which is affected by the proposed issuance, denial or modification of the permit contained in the determination of the Director, and explain how and to what extent that interest would be directly and adversely affected by such determination;
- (iii) Identify any persons whom the request represents;
- (iv) State with particularity the issues proposed to be considered at the hearing;
- (v) Include any terms and conditions with which the appellant proposes to revise or replace the determinations of the Director;
- (vi) State the name, mailing address and telephone number of the attorney for the person making the request, if represented by an attorney; and
- (vii) An original signature of the person making the request or such person's attorney.

The Commission may rule on the appeal or may hold an appeals hearing prior to making a ruling.

FORM 1 GENERAL	 U.S. ENVIRONMENTAL PROTECTION AGENCY GENERAL INFORMATION Consolidated Permits Program <i>(Read the "General Instructions" before starting.)</i>	I. EPA I.D. NUMBER <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:5%;">S</td> <td style="width:15%;"></td> <td style="width:5%;">T/A</td> <td style="width:5%;">C</td> </tr> <tr> <td>F</td> <td></td> <td></td> <td>D</td> </tr> <tr> <td>1</td> <td>2</td> <td>13</td> <td>14</td> </tr> <tr> <td></td> <td></td> <td></td> <td>15</td> </tr> </table>	S		T/A	C	F			D	1	2	13	14				15																																						
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II. POLLUTANT CHARACTERISTICS INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of bold-faced terms.																																																								
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">SPECIFIC QUESTIONS</th> <th colspan="3">Mark "X"</th> <th rowspan="2">SPECIFIC QUESTIONS</th> <th colspan="3">Mark "X"</th> </tr> <tr> <th>YES</th> <th>NO</th> <th>FORM ATTACHED</th> <th>YES</th> <th>NO</th> <th>FORM ATTACHED</th> </tr> </thead> <tbody> <tr> <td>A. Is this facility a publicly owned treatment works which results in a discharge to waters of the U.S.? (FORM 2A)</td> <td style="text-align: center;">X</td> <td></td> <td style="text-align: center;">X</td> <td>B. Does or will this facility (either existing or proposed) include a concentrated animal feeding operation or aquatic animal production facility which results in a discharge to waters of the U.S.? (FORM 2B)</td> <td></td> <td style="text-align: center;">X</td> <td></td> </tr> <tr> <td>C. Is this a facility which currently results in discharges to waters of the U.S. other than those described in A or B above? (FORM 2C)</td> <td></td> <td style="text-align: center;">X</td> <td></td> <td>D. Is this a proposed facility (other than those described in A or B above) which will result in a discharge to waters of the U.S.? (FORM 2D)</td> <td></td> <td style="text-align: center;">X</td> <td></td> </tr> <tr> <td>E. Does or will this facility treat, store, or dispose of hazardous wastes? (FORM 3)</td> <td></td> <td style="text-align: center;">X</td> <td></td> <td>F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)</td> <td></td> <td style="text-align: center;">X</td> <td></td> </tr> <tr> <td>G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)</td> <td></td> <td style="text-align: center;">X</td> <td></td> <td>H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)</td> <td></td> <td style="text-align: center;">X</td> <td></td> </tr> <tr> <td>I. Is this facility a proposed stationary source which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? 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G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)		X		H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)		X																																																		
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III. NAME OF FACILITY <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:5%;">C</td> <td style="width:10%;">SKIP</td> <td style="width:85%;">DEMOPOLIS WWTWP</td> </tr> <tr> <td>1</td> <td></td> <td></td> </tr> <tr> <td>15</td> <td>16 - 20</td> <td>30</td> </tr> </table>			C	SKIP	DEMOPOLIS WWTWP	1			15	16 - 20	30																																													
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CONTINUED FROM THE FRONT

VII. SIC CODES (4-digit, in order of priority)

A. FIRST										B. SECOND									
7	4	9	5	(specify)						7	(specify)								
Municipal Sewerage System																			
C. THIRD										D. FOURTH									
7	(specify)									7	(specify)								

VIII. OPERATOR INFORMATION

A. NAME																									B. Is the name listed in Item VIII-A also the owner?				
DEMOPOLIS WATER WORKS & SEWER BOARD																									<input type="checkbox"/> YES <input type="checkbox"/> NO				
C. STATUS OF OPERATOR (Enter the appropriate letter into the answer box: if "Other," specify.)																									D. PHONE (area code & no.)				
F = FEDERAL S = STATE P = PRIVATE										M = PUBLIC (other than federal or state) O = OTHER (specify)										M					3 3 4 2 8 9 3 3 2 8				

E. STREET OR P.O. BOX																								
2 1 0 1 WATER AVENUE																								

F. CITY OR TOWN																				G. STATE					H. ZIP CODE					I. INDIAN LAND				
DEMOPOLIS																				AL					3 6 7 3					Is the facility located on Indian lands? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO				

X. EXISTING ENVIRONMENTAL PERMITS

A. NPDES (Discharges to Surface Water)															D. PSD (Air Emissions from Proposed Sources)														
9 N A L 0 0 4 3 1 6 8															9 P N / A														
B. UIC (Underground Injection of Fluids)															E. OTHER (specify)														
9 U N / A															9 N / A														
C. RCRA (Hazardous Wastes)															E. OTHER (specify)														
9 R N / A															9 N / A														

XI. MAP

Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers, and other surface water bodies in the map area. See instructions for precise requirements.

XII. NATURE OF BUSINESS (provide a brief description)

Municipal Waste Water Treatment Facility

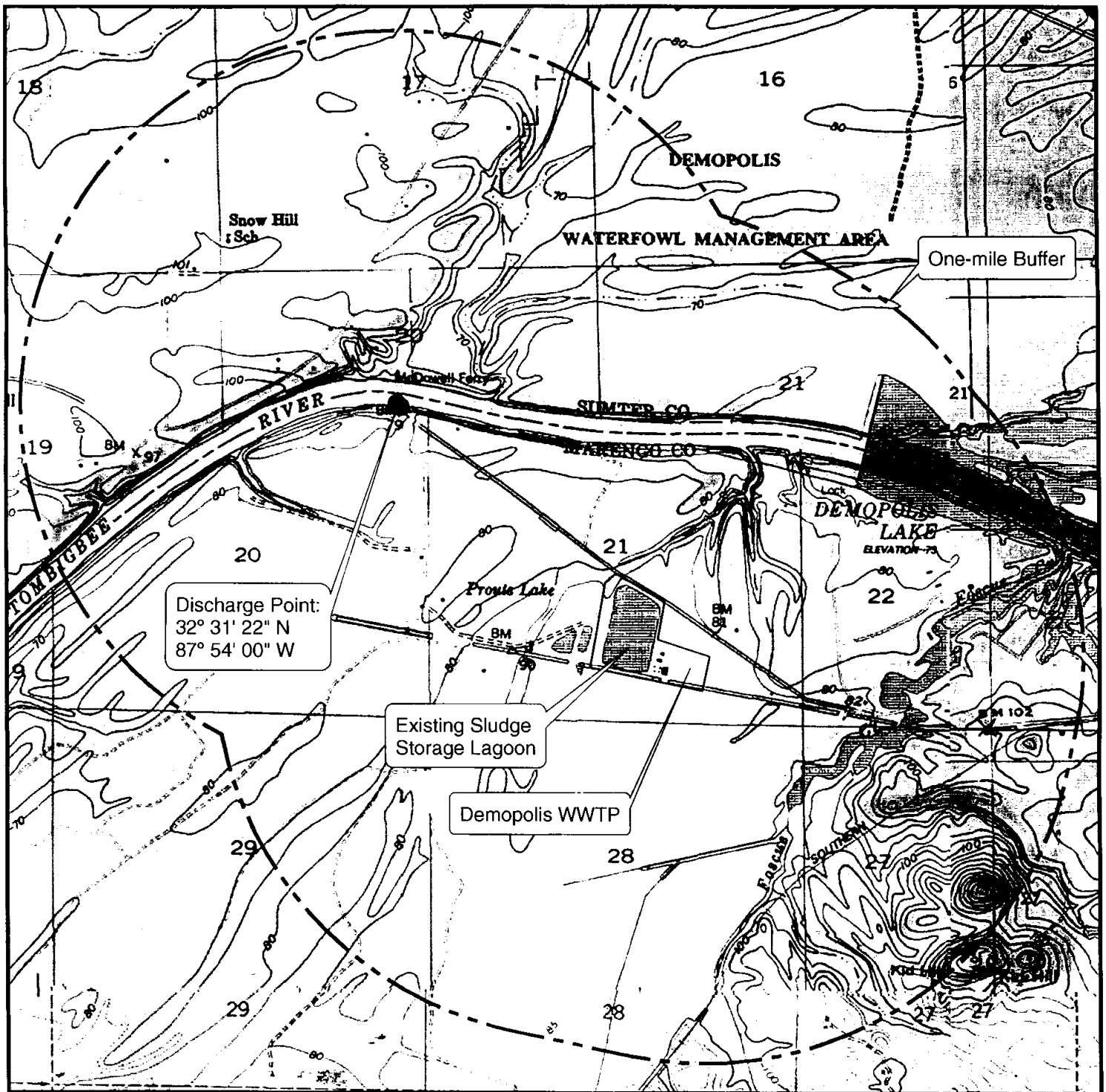
XIII. CERTIFICATION (see instructions)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME & OFFICIAL TITLE (type or print)															B. SIGNATURE															C. DATE SIGNED														
Mr. Charles C. Smith, Chairman																														9/10/09														

COMMENTS FOR OFFICIAL USE ONLY

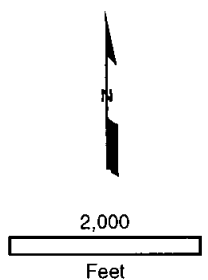
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Topographical Map - One-mile Site and Discharge Point Buffer

Demopolis 2009 Wastewater Treatment Plant Permit Renewal
 Demopolis, Alabama
 NPDES Permit AL0043168
 August 2009

almon
 associates



SUPPLEMENTARY INFORMATION
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
PERMIT APPLICATION FORM 188- Municipal, Semi-Public & Private Facilities

ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
WATER DIVISION – MUNICIPAL SECTION
POST OFFICE BOX 301463
MONTGOMERY, ALABAMA 36130-1463

INSTRUCTIONS: APPLICATIONS SHOULD BE TYPED OR PRINTED IN INK AND SUBMITTED TO THE DEPARTMENT IN DUPLICATE. PLEASE CONTINUE ON AN ATTACHED SHEET OF PAPER IF INSUFFICIENT SPACE IS AVAILABLE TO ADDRESS ANY ITEM BELOW. PLEASE MARK N/A IN THE APPROPRIATE BOX WHEN AN ITEM IS NON-APPLICABLE TO THE APPLICANT.

PURPOSE OF THIS APPLICATION

☐ INITIAL PERMIT APPLICATION FOR NEW FACILITY ☐ INITIAL PERMIT APPLICATION FOR EXISTING FACILITY
☐ MODIFICATION OF EXISTING PERMIT ☒ REISSUANCE OF EXISTING PERMIT
☐ REVOCATION & REISSUANCE OF EXISTING PERMIT

1. Facility Name: Demopolis WWTP
a. Operator Name: Demopolis Water Works and Sewer Board
b. Is the operator identified in 1.a, the owner of the facility? Yes ☒ No ☐
If no, provide the name and address of the operator and submit information indicating the operator's scope of responsibility for the facility.

2. NPDES Permit Number AL 0043168

3. Facility Location: **(Attach a map with location marked; street, route no. or other specific identifier)**

Street: 2101 Water Avenue

City: Demopolis County: Marengo State: AL Zip: 36732

4. Facility Mailing Address (Street or Post Office Box): Same

City: _____ County: _____ State: _____ Zip: _____

5. Responsible Official (as described on page 7 of this application):

Name and Title: Mr. Charles C. "Chuck" Smith, Chairman

Address: 103 E. Capitol Street

City: Demopolis State: AL Zip: 36732

Phone Number: (334) 289-3328

6. Designated Facility Contact:

Name and Title: Mr. Byron Cook, Manager

Phone Number: (334) 289-3328

7. Please complete this section if the Applicant's business entity is a Proprietorship or limited liability Corporation with a responsible official not listed in Item 5.

a) Proprietor:

Name: N/A

Address: _____

City: _____ State: _____ Zip: _____

8. Permit numbers for Applicant's previously issued NPDES Permits and Identification of any other State Environmental Permits presently held by the Applicant within the State of Alabama:

<u>Permit Name</u>	<u>Permit Number</u>	<u>Held by</u>
<u>Demopolis Airport Ind. Park WWTP</u>	<u>AL0061239</u>	<u>Demopolis WW&S Board</u>
<u>Demopolis Water Supply Permit</u>	<u>PWS ID 000098</u>	<u>Demopolis WW&S Board</u>
_____	_____	_____
_____	_____	_____

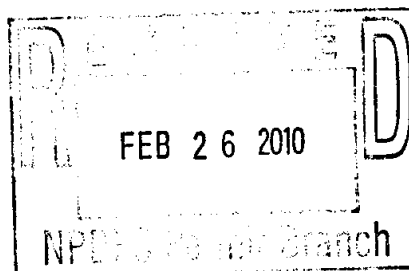
9. Identify all Administrative Complaints, Notices of Violation, Directives, or Administrative Orders, Consent Decrees, or Litigation concerning water pollution or other permit violations, if any against the Applicant within the State of Alabama in the past five years (attach additional sheets if necessary): None

<u>Facility Name</u>	<u>Permit Number</u>	<u>Type of Action</u>	<u>Date of Action</u>
<u>Demopolis WWTP</u>	<u>AL0043168</u>	<u>Consent Decree</u>	<u>5/10/05</u>
<u>Demopolis WWTP</u>	<u>AL0043168</u>	<u>Notice of Violation</u>	<u>3/6/06</u>
<u>Demopolis WWTP</u>	<u>AL0043168</u>	<u>Notice of Violation</u>	<u>8/19/09</u>
<u>Demopolis WWTP</u>	<u>AL0043168</u>	<u>Administrative Order</u>	<u>2/5/10</u>
_____	_____	_____	_____

SECTION A- WASTEWATER DISCHARGE INFORMATION

1. List the following historical monthly flow rates recorded for the past five years for each outfall:

<u>Outfall Number</u>	<u>Highest in Last 12 Months MGD</u>	<u>Highest Daily Flow MGD</u>	<u>Average Flow MGD</u>
<u>001</u>	<u>8.265</u>	<u>9.647</u>	<u>1.946</u>
_____	_____	_____	_____



2. Attached a process flow schematic of the treatment process, including the size of each unit operation.
3. Do you have, or plan to have, automatic sampling equipment or continuous wastewater flow metering equipment at this facility?

Current:	Flow Metering	Yes	___	No	<u>X</u>	N/A	___
	Sampling Equipment	Yes	___	No	<u>X</u>	N/A	___
Planned:	Flow Metering	Yes	___	No	<u>X</u>	N/A	___
	Sampling Equipment	Yes	___	No	<u>X</u>	N/A	___

If so, please attach a schematic diagram of the sewer system indicating the present or future location of this equipment and describe the equipment below:

4. Are any wastewater collection or treatment modifications or expansions planned during the next three years that could alter wastewater volumes or characteristics? Yes ___ No X ___

Briefly describe these changes and any potential or anticipated effects on the wastewater quality and quantity: (Attach additional sheets if needed.)

SECTION B – WASTE STORAGE AND DISPOSAL INFORMATION

Describe the location of all sites used for the storage of solids or liquids that have any potential for accidental discharge to a water of the state, either directly or indirectly via storm sewer, municipal sewer, municipal wastewater treatment plants, or other collection or distribution systems that are located at or operated by the subject existing or proposed NPDES-permitted facility. Indicate the location of any potential release areas and provide a map or detailed narrative description of the areas of concern as an attachment to this application:

Description of Waste

Description of Storage Location

Waste solids, grit, and grease

WWTP Property

Describe the location of any sites used for the ultimate disposal of solid or liquid waste materials or residuals (e.g. sludges) generated by any wastewater treatment system located at the facility.

Description of Waste	Quantity (lbs/day)	Disposal Method*
<u>Waste solids, grit, and grease</u>	<u>4,000</u>	<u>Lagoon on WWTP Property</u>

*Indicate any wastes disposed at an off-site treatment facility and any wastes that are disposed on-site

Revised 2/18/10

SECTION C – INDUSTRIAL INDIRECT DISCHARGE CONTRIBUTORS

1. List the existing and proposed industrial source wastewater contributions to the municipal wastewater treatment system (Attach other sheets if necessary)

Company Name	Description of Industrial Wastewater	Existing or Proposed	Flow (MGD)	Subject to SID Permit? Y/N
Foster Farms	Meat Packing Plant	Existing	0.1422	Yes
Hexion Spec. Chemicals	Plastics, Synthetic Resins	Existing	0.0808	Yes
Suttles Truck Leasing	Tanker Washdown	Existing	0.0177	Yes
Southern Pride Catfish, LLC	Prepared Fresh or Frozen Fish	Existing	0.0046	Yes
South Fresh Foods	Catfish Feed Wastes	Existing	0.0010	No *Periodic
Perry Co. Assoc., LLC	Landfill Leachate	Existing	0.0128	No *SID Permit

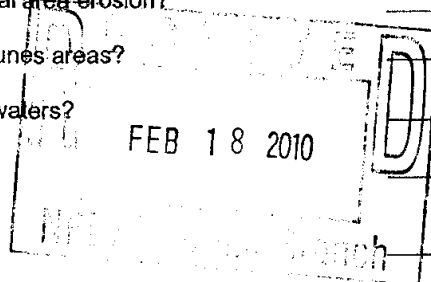
2. Are industrial wastewater contributions regulated via a locally approved sewer use ordinance [Y/N]? If so, please attach a copy of the ordinance. Yes

Applied for 12/22/09

SECTION D – COASTAL ZONE INFORMATION

Is the discharge(s) located within the 10-foot elevation contour and within the limits of Mobile or Baldwin County?
Yes [] No [X] If yes, then complete items A through M below:

	YES	NO
A. Does the project require new construction?	_____	_____
B. Will the project be a source of new air emissions?	_____	_____
C. Does the project involve dredging and/or filling of a wetland area or water way?	_____	_____
Has the Corps of Engineers (COE) permit been issued?	_____	_____
Corps Project Number _____		
D. Does the project involve wetlands and/or submersed grassbeds?	_____	_____
E. Are oyster reefs located near the project site? (Include a map showing project and discharge location with respect to oyster reefs)	_____	_____
F Does the project involve the site development, construction and operation of an energy facility as defined in ADEM Admin. Code R. 335-8-1-.02(bb)?	_____	_____
G. Does the project involve mitigation of shoreline or coastal area erosion?	_____	_____
H. Does the project involve construction on beaches or dunes areas?	_____	_____
I. Will the project interfere with public access to coastal waters?	_____	_____
J. Does the project lie within the 100-year floodplain?	_____	_____
K. Does the project involve the registration, sale, use, or application of pesticides?	_____	_____
L. Does the project propose or require construction of a new well or to alter an existing groundwater well to pump more than 50 gallons per day (GPD)?	_____	_____
M. Has the applicable permit for groundwater recovery or for groundwater well installation been obtained?	_____	_____



SECTION E-- ANTI-DEGRADATION EVALUATION

It is the applicant's responsibility to demonstrate the social and economic importance of the proposed activity, if subject to antidegradation requirements. In accordance with 40 CFR 131.12 and Section 335-6-10-.04 of the Alabama Department of Environmental Management Administrative Code, the following information must be provided, if applicable. If further information is required to make this demonstration, attach additional sheets to the application.

1. Is this a new or increased discharge that began after April 3, 1991? Yes [] No [X].
If "yes", complete question 2 below. If "no", do not complete this section.
2. Has an Anti-Degradation Analysis been previously conducted and submitted to the Department for the new or increased discharge referenced in question 1? Yes [] No [].

If "no", complete questions A through F below and also ADEM forms 311 and 312 or 313, whichever is applicable, (attached). Form 312 or 313, whichever is applicable, must be provided for each treatment discharge alternative considered technically viable. If "yes", do not complete this section.

Information required for new or increased discharges to high quality waters:

- A. What environmental or public health problem will the discharger be correcting?
- B. Explain if and to what degree the discharger will be increasing employment as a result of the proposed discharge, either at its existing facility or as the result of the start-up of a related new facility or industry.
- C. Explain if and to what degree the discharge will prevent employment reductions?
- D. Describe any additional state or local taxes that the prospective discharger will be paying.
- E. Describe any public service the discharger will be providing to the community.
- F. Describe the economic or social benefit the discharger will be providing to the community.

SECTION F – EPA Application Forms

All Applicants must submit certain EPA permit application forms. More than one application form may be required from a municipal facility depending on the number and types of discharges or outfalls. The EPA application forms are found on the Department's website at <http://www.adem.state.al.us/> and are also listed in Attachment 4. The EPA application forms must be submitted to ADEM in duplicate.

SECTION G-- ENGINEERING REPORT/BMP PLAN REQUIREMENTS

Any Engineering Report or Best Management Practice (BMP) Plans required to be submitted to ADEM by the applicant must be in accordance with ADEM 335-6-6-.08(i) & (j).

SECTION H- APPLICATION CERTIFICATION

THE INFORMATION CONTAINED IN THIS FORM MUST BE CERTIFIED BY A RESPONSIBLE OFFICIAL AS DEFINED IN ADEM ADMINISTRATIVE RULE 335-6-6-.09 "SIGNATORY REQUIREMENTS FOR PERMIT APPLICATIONS" (SEE BELOW).

"I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS."

"I FURTHER CERTIFY UNDER PENALTY OF LAW THAT THE RESULTS OF ANY ANALYSES REPORTED AS LESS THAN DETECTABLE IN THIS APPLICATION OR IN ATTACHMENTS THERETO WERE PERFORMED USING THE EPA APPROVED TEST METHOD HAVING THE LOWEST DETECTION LIMIT READILY ACHIEVABLE FOR THE SUBSTANCE TESTED."

SIGNATURE OF
RESPONSIBLE OFFICIAL:



DATE
SIGNED:

7/10/09

(TYPE OR PRINT)

NAME OF RESPONSIBLE OFFICIAL:

Mr. Charles C. Smith

OFFICIAL TITLE OF RESPONSIBLE OFFICIAL:

Chairman

MAILING ADDRESS:

102 E. Capitol Street, Demopolis, AL 36732

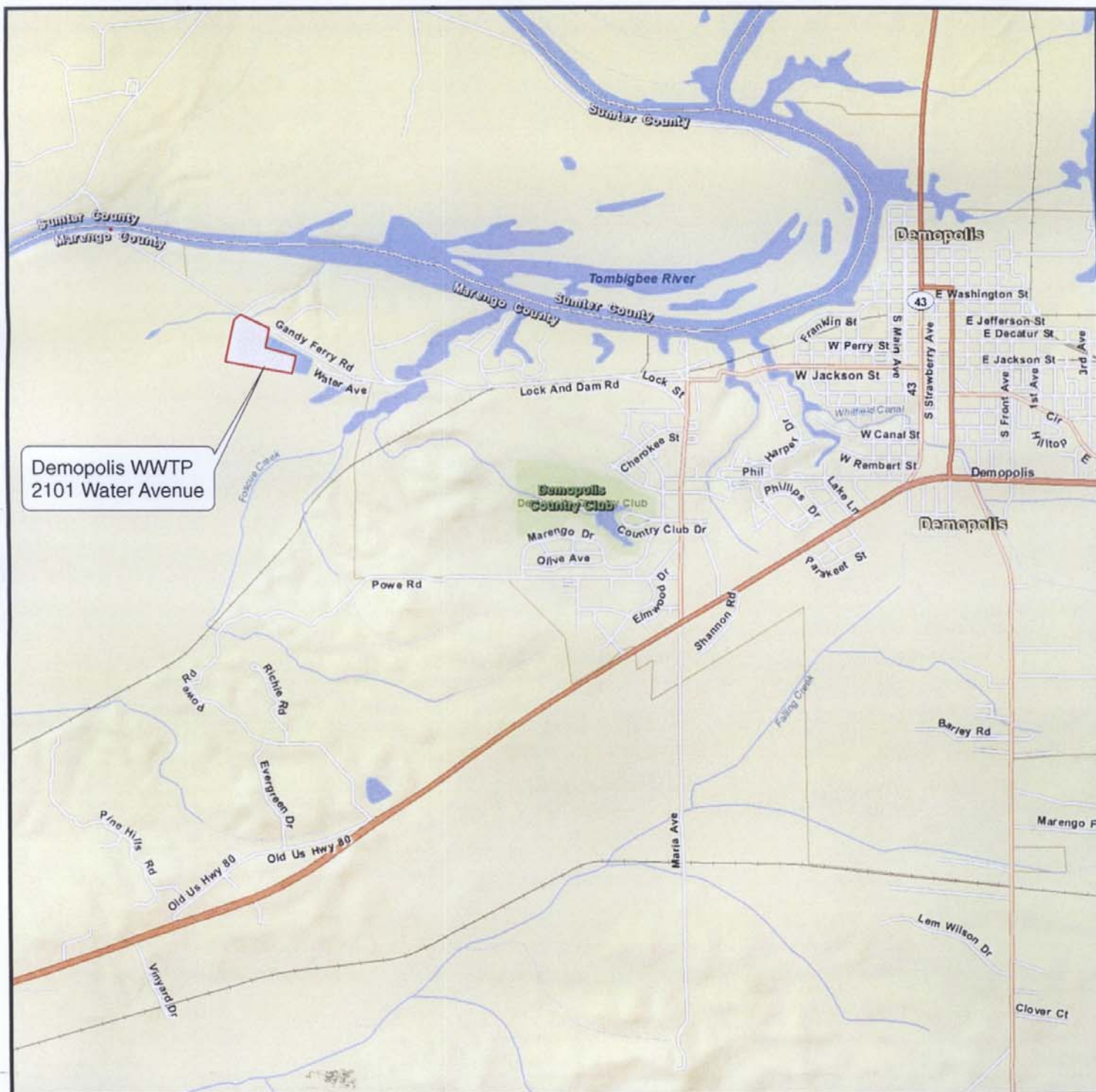
AREA CODE & PHONE NUMBER:

(334) 289-3328

SIGNATORY REQUIREMENTS FOR PERMIT APPLICATIONS

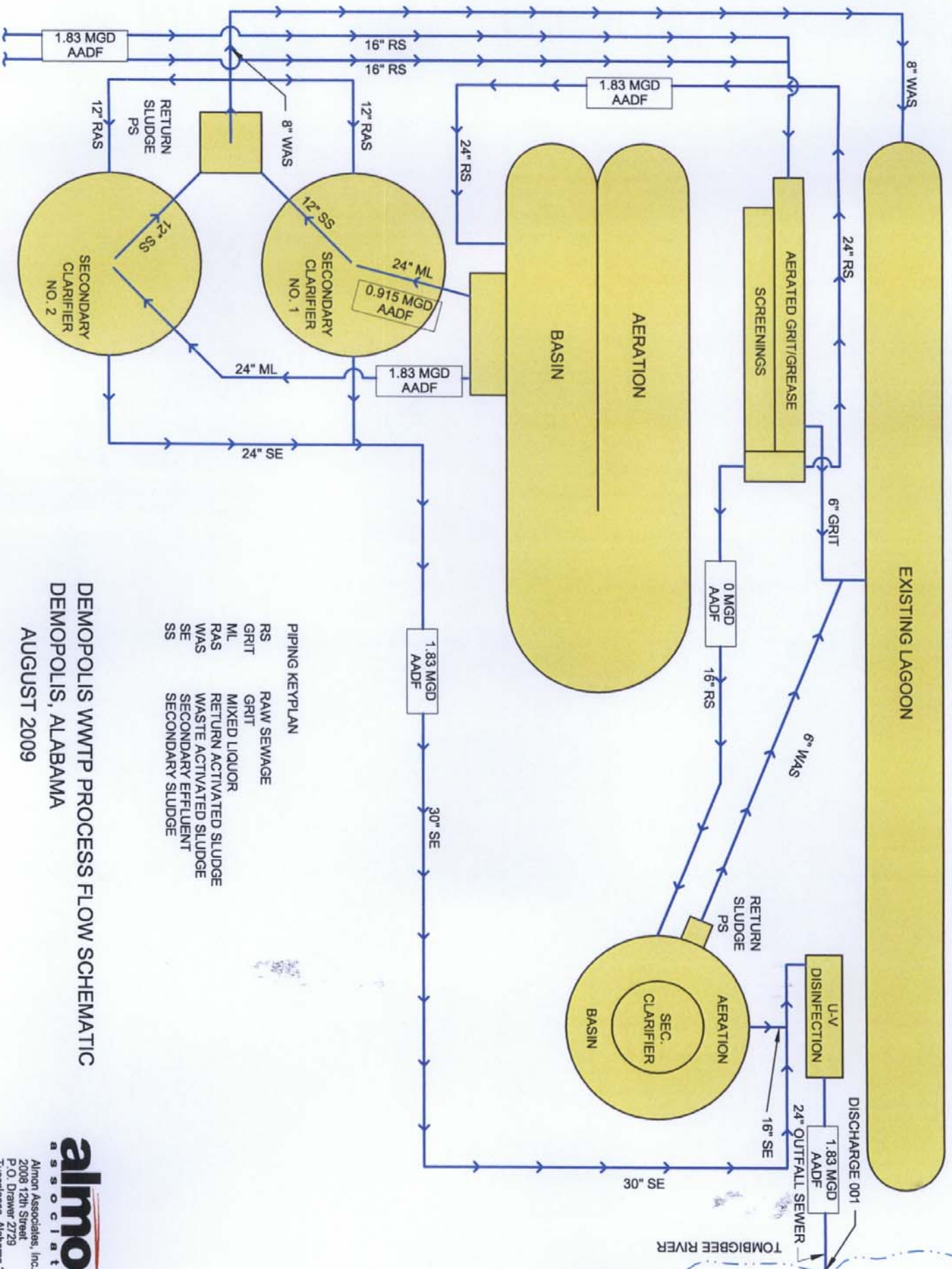
Responsible official is defined as follows:

1. In the case of a municipal, state, federal, or other public facility, the responsible official is either a principal executive officer or a ranking elected official of the municipality or other public entity.
2. In the case of a private or semi-public facility, the responsible official is either a principal executive officer or the owner of the corporation or other entity.



Facility Location Map

Demopolis 2009 Wastewater Treatment Plant Permit Renewal
 Demopolis, Alabama
 NPDES Permit AL0043168
 August 2009



PIPING KEYPLAN

RS	RAW SEWAGE
GRIT	GRIT
ML	MIXED LIQUOR
RAS	RETURN ACTIVATED SLUDGE
WAS	WASTE ACTIVATED SLUDGE
SE	SECONDARY EFFLUENT
SS	SECONDARY SLUDGE

DEMOPOLIS WWTTP PROCESS FLOW SCHEMATIC
DEMOPOLIS, ALABAMA
AUGUST 2009

almon
ASSOCIATES

Almon Associates, Inc.
2008 12th Street
P.O. Drawer 2729
Tuscaloosa, Alabama 35403
(205) 349-2100 Voice
(205) 349-2107 Fax

Demopolis WWTP; AL0043168

BASIC APPLICATION INFORMATION

All treatment works must complete questions A.1 through A.8 of this Basic Application Information packet.

Facility name	Demopolis WWTP
Mailing Address	2101 Water Avenue Demopolis, AL 36732
Contact person	Mr. Byron Cook
Title	Systems Manager
Telephone number	(334) 289-3328
Facility Address	2101 Water Avenue
(not P.O. Box)	Demopolis, AL 36732

Applicant name	Demopolis Water and Sewer Board
Mailing Address	103 E. Capitol Street Demopolis, AL 36732
Contact person	Mr. Byron Cook
Title	Systems Manager
Telephone number	(334) 289-3328

X owner X operator

facility X applicant

NPDES	AL0043168	PSD	N/A
UIC	N/A	Other	N/A
RCRA	N/A	Other	N/A

Name	Population Served	Type of Collection System	Ownership
City of Demopolis	7,700	Separate	Municipal
Total population served	7,700		

FACILITY NAME AND PERMIT NUMBER:

Demopolis WWTP; AL0043168

Form Approved 1/14/99
OMB Number 2040-0086

A.5. Indian Country.

- a. Is the treatment works located in Indian Country?

☐ Yes ☒ No

- b. Does the treatment works discharge to a receiving water that is either in Indian Country or that is upstream from (and eventually flows through) Indian Country?

☐ Yes ☒ No

A.6. Flow. Indicate the design flow rate of the treatment plant (i.e., the wastewater flow rate that the plant was built to handle). Also provide the average daily flow rate and maximum daily flow rate for each of the last three years. Each year's data must be based on a 12-month time period with the 12th month of "this year" occurring no more than three months prior to this application submittal.

- a. Design flow rate
- 2.65
- mgd

	Two Years Ago	Last Year	This Year	
b. Annual average daily flow rate	<u>1.83</u>	<u>1.61</u>	<u>1.83</u>	mgd
c. Maximum daily flow rate	<u>3.84</u>	<u>3.69</u>	<u>4.48</u>	mgd

A.7. Collection System. Indicate the type(s) of collection system(s) used by the treatment plant. Check all that apply. Also estimate the percent contribution (by miles) of each.

<u>65</u> Miles Separate sanitary sewer	<u>100</u>	%
<input type="checkbox"/> Combined storm and sanitary sewer	<u>0</u>	%

A.8. Discharges and Other Disposal Methods.

- a. Does the treatment works discharge effluent to waters of the U.S.?
- ☒
- Yes
- ☐
- No

If yes, list how many of each of the following types of discharge points the treatment works uses:

i. Discharges of treated effluent	<u>1</u>
ii. Discharges of untreated or partially treated effluent	<u>0</u>
iii. Combined sewer overflow points	<u>0</u>
iv. Constructed emergency overflows (prior to the headworks)	<u>0</u>
v. Other _____	_____

- b. Does the treatment works discharge effluent to basins, ponds, or other surface impoundments that do not have outlets for discharge to waters of the U.S.?
- ☐
- Yes
- ☒
- No

If yes, provide the following for each surface impoundment:

Location: _____

Annual average daily volume discharged to surface impoundment(s) _____ mgd

Is discharge _____ continuous or _____ intermittent?

- c. Does the treatment works land-apply treated wastewater?
- ☐
- Yes
- ☒
- No

If yes, provide the following for each land application site:

Location: _____

Number of acres: _____

Annual average daily volume applied to site: _____ Mgd

Is land application _____ continuous or _____ intermittent?

- d. Does the treatment works discharge or transport treated or untreated wastewater to another treatment works?
- ☐
- Yes
- ☒
- No

FACILITY NAME AND PERMIT NUMBER:

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If yes, describe the mean(s) by which the wastewater from the treatment works is discharged or transported to the other treatment works (e.g., tank truck, pipe).

If transport is by a party other than the applicant, provide:

Transporter name: _____

Mailing Address: _____

Contact person: _____

Title: _____

Telephone number: _____

For each treatment works that receives this discharge, provide the following:

Name: _____

Mailing Address: _____

Contact person: _____

Title: _____

Telephone number: _____

If known, provide the NPDES permit number of the treatment works that receives this discharge. _____

Provide the average daily flow rate from the treatment works into the receiving facility. _____

mgd

- e. Does the treatment works discharge or dispose of its wastewater in a manner not included in A.8.a through A.8.d above (e.g., underground percolation, well injection)?

_____ Yes

_____ ☒ No

If yes, provide the following for each disposal method:

Description of method (including location and size of site(s) if applicable):

Annual daily volume disposed of by this method: _____

Is disposal through this method

_____ continuous or _____ intermittent?

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OMB Number 2040-0086**A.11. Description of Treatment.**

- a. What levels of treatment are provided? Check all that apply.

☐ Primary☒ Secondary☐ Advanced☐ Other. Describe: _____

- b. Indicate the following removal rates (as applicable):

Design BOD₅ removal or Design CBOD₅ removal

85 %

Design SS removal

85 %

Design P removal

0 %

Design N removal

0 %

Other _____

0 %

- c. What type of disinfection is used for the effluent from this outfall? If disinfection varies by season, please describe.

Ultraviolet Light

If disinfection is by chlorination, is dechlorination used for this outfall?

☐ Yes ☒ No

- d. Does the treatment plant have post aeration?

☐ Yes ☒ No

A.12. Effluent Testing Information. All Applicants that discharge to waters of the US must provide effluent testing data for the following parameters. Provide the indicated effluent testing required by the permitting authority for each outfall through which effluent is discharged. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. At a minimum, effluent testing data must be based on at least three samples and must be no more than four and one-half years apart.

Outfall number: 001

PARAMETER	MAXIMUM DAILY VALUE		AVERAGE DAILY VALUE		
	Value	Units	Value	Units	Number of Samples
pH (Minimum)	6.5	s.u.			
pH (Maximum)	8.2	s.u.			
Flow Rate	4.48	MGD	1.83	MGD	12
Temperature (Winter)	N/A				
Temperature (Summer)	N/A				

* For pH please report a minimum and a maximum daily value

POLLUTANT	MAXIMUM DAILY DISCHARGE		AVERAGE DAILY DISCHARGE			ANALYTICAL METHOD	ML / MDL
	Conc.	Units	Conc.	Units	Number of Samples		

CONVENTIONAL AND NONCONVENTIONAL COMPOUNDS.

BIOCHEMICAL OXYGEN DEMAND (Report one)	BOD-5						
	CBOD-5	13.9	mg/l	5.51	mg/l	12	
FECAL COLIFORM		108.8	col/100ml	42.1	col/100ml	12	
TOTAL SUSPENDED SOLIDS (TSS)		5.9	mg/l	3.0	mg/l	12	

END OF PART A.

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE

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BASIC APPLICATION INFORMATION

PART B. ADDITIONAL APPLICATION INFORMATION FOR APPLICANTS WITH A DESIGN FLOW GREATER THAN OR EQUAL TO 0.1 MGD (100,000 gallons per day).

All applicants with a design flow rate ≥ 0.1 mgd must answer questions B.1 through B.6. All others go to Part C (Certification).

B.1. Inflow and Infiltration. Estimate the average number of gallons per day that flow into the treatment works from inflow and/or infiltration.

100,000 gpd

Briefly explain any steps underway or planned to minimize inflow and infiltration.

None

B.2. Topographic Map. Attach to this application a topographic map of the area extending at least one mile beyond facility property boundaries. This map must show the outline of the facility and the following information. (You may submit more than one map if one map does not show the entire area.)

- The area surrounding the treatment plant, including all unit processes.
- The major pipes or other structures through which wastewater enters the treatment works and the pipes or other structures through which treated wastewater is discharged from the treatment plant. Include outfalls from bypass piping, if applicable.
- Each well where wastewater from the treatment plant is injected underground.
- Wells, springs, other surface water bodies, and drinking water wells that are: 1) within 1/4 mile of the property boundaries of the treatment works, and 2) listed in public record or otherwise known to the applicant.
- Any areas where the sewage sludge produced by the treatment works is stored, treated, or disposed.
- If the treatment works receives waste that is classified as hazardous under the Resource Conservation and Recovery Act (RCRA) by truck, rail, or special pipe, show on the map where that hazardous waste enters the treatment works and where it is treated, stored, and/or disposed.

B.3. Process Flow Diagram or Schematic. Provide a diagram showing the processes of the treatment plant, including all bypass piping and all backup power sources or redundancy in the system. Also provide a water balance showing all treatment units, including disinfection (e.g. chlorination and dechlorination). The water balance must show daily average flow rates at influent and discharge points and approximate daily flow rates between treatment units. Include a brief narrative description of the diagram.

B.4. Operation/Maintenance Performed by Contractor(s).

Are any operational or maintenance aspects (related to wastewater treatment and effluent quality) of the treatment works the responsibility of a contractor? Yes ☒ No

If yes, list the name, address, telephone number, and status of each contractor and describe the contractor's responsibilities (attach additional pages if necessary).

Name: _____

Mailing Address: _____

Telephone Number: _____

Responsibilities of Contractor: _____

B.5. Scheduled Improvements and Schedules of Implementation. Provide information on any uncompleted implementation schedule or uncompleted plans for improvements that will affect the wastewater treatment, effluent quality, or design capacity of the treatment works. If the treatment works has several different implementation schedules or is planning several improvements, submit separate responses to question B.5 for each. (If none, go to question B.6.) None

- List the outfall number (assigned in question A.9) for each outfall that is covered by this implementation schedule.

- Indicate whether the planned improvements or implementation schedule are required by local, State, or Federal agencies.

Yes No

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- c. If the answer to B.5.b is "Yes," briefly describe, including new maximum daily inflow rate (if applicable).

- d. Provide dates imposed by any compliance schedule or any actual dates of completion for the implementation steps listed below, as applicable. For improvements planned independently of local, State, or Federal agencies, indicate planned or actual completion dates, as applicable. Indicate dates as accurately as possible.

Implementation Stage	Schedule MM/DD/YYYY	Actual Completion MM/DD/YYYY
- Begin construction	__/__/__	__/__/__
- End construction	__/__/__	__/__/__
- Begin discharge	__/__/__	__/__/__
- Attain operational level	__/__/__	__/__/__

- e. Have appropriate permits/clearances concerning other Federal/State requirements been obtained? ☐ Yes ☐ No

Describe briefly: _____

B.6. EFFLUENT TESTING DATA (GREATER THAN 0.1 MGD ONLY).

Applicants that discharge to waters of the US must provide effluent testing data for the following parameters. Provide the indicated effluent testing required by the permitting authority for each outfall through which effluent is discharged. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. At a minimum, effluent testing data must be based on at least three pollutant scans and must be no more than four and one-half years old.

Outfall Number: 001

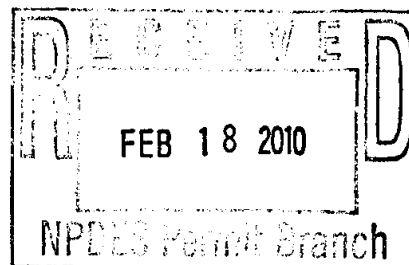
POLLUTANT	MAXIMUM DAILY DISCHARGE		AVERAGE DAILY DISCHARGE			ANALYTICAL METHOD	ML / MDL
	Conc.	Units	Conc.	Units	Number of Samples		

CONVENTIONAL AND NONCONVENTIONAL COMPOUNDS.

AMMONIA (as N)	5.87	mg/l	1.95	mg/l	3.00	M4500-NH3 BF	0.05
CHLORINE (TOTAL RESIDUAL, TRC)	0.18	mg/l	0.09	mg/l	3.00	M4500-CL G	0.01
DISSOLVED OXYGEN	8.00	mg/l	7.20	mg/l	3.00	M4500-O G	0.1
TOTAL KJELDAHL NITROGEN (TKN)	40.50	mg/l	24.87	mg/l	3.00	M4500-N B	0.05
NITRATE PLUS NITRITE NITROGEN	54.30	mg/l	37.30	mg/l	3.00	E300	1.00
OIL and GREASE	19.20	mg/l	9.80	mg/l	3.00	E1664	1.0
PHOSPHORUS (Total)	2.63	mg/l	2.22	mg/l	3.00	M4500_P B5	0.05
TOTAL DISSOLVED SOLIDS (TDS)	1,150.00	mg/l	1,031.00	mg/l	3.00	M2540 C	20.0
OTHER							

END OF PART B.

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE



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BASIC APPLICATION INFORMATION

PART C: CERTIFICATION

All applicants must complete the Certification Section. Refer to instructions to determine who is authorized for the purposes of this certification. All applicants must complete all applicable sections of Form 2A as explained in the Application Overview. Indicate below which parts of Form 2A you have completed and are submitting. By signing this certification statement, applicants confirm that they have reviewed Form 2A and have completed all sections that apply to the facility for which this application is submitted.

Indicate which parts of Form 2A you have completed and are submitting:

☒ Basic Application Information packet

Supplemental Application Information packet:

☒ Part D (Expanded Effluent Testing Data)

☒ Part E (Toxicity Testing: Biomonitoring Data)

☒ Part F (Industrial User Discharges and RCRA/CERCLA Wastes)

☐ Part G (Combined Sewer Systems)

ALL APPLICANTS MUST COMPLETE THE FOLLOWING CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name and official title Mr. Charles O. Smith, Chairman

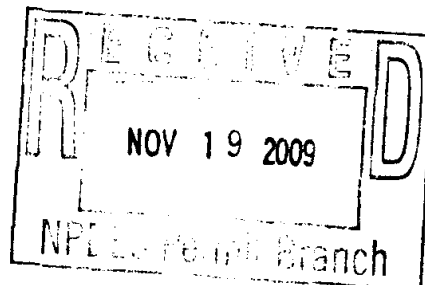
Signature *Charles O. Smith*

Telephone number (334) 289-3328

Date signed 9/14/09

Upon request of the permitting authority, you must submit any other information necessary to assess wastewater treatment practices at the treatment works or identify appropriate permitting requirements.

SEND COMPLETED FORMS TO:





ENGINEERING & SURVEYING

2008 12TH Street

P.O. Drawer 2729

Tuscaloosa, Alabama 35403

205/349-2100

Fax 205/349-2107

MEMO

To: Mr. Wayne Rogers

ADEM

P.O. Box 301463

Montgomery, AL 36130-1463

From: Phillip R. Guin, P.E.

Re: Demopolis WWTP, NPDES AL0043168

CC: Mr. Byron Cook, Demopolis Water Works and Sewer Board

Date: 1/22/10

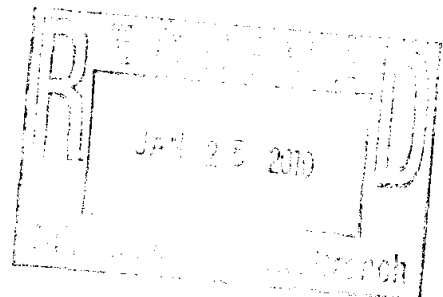
Attached is a hard copy of Part D, Expanded Effluent Testing Data for the Demopolis WWTP permit renewal. Also, I have attached copies of the testing data from TTL, Inc. that was used to compile this information. The testing dates are shown on the cover sheet for each of the 3 tests completed. I calculated the mass loadings for each parameter at the design flow rate for the Maximum Daily Discharge and the yearly average daily flow rate for the Average Daily Discharge. You may retain these copies for your files.

I apologize for the appearance of the form; our typewriter does not have a less than sign. I also found some typo's that were manually corrected.

If you have any questions or need additional information, please give our office a call.

Thanks!

Attachments



FACILITY NAME AND PERMIT NUMBER:

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SUPPLEMENTAL APPLICATION INFORMATION

PART D. EXPANDED EFFLUENT TESTING DATA

Refer to the directions on the cover page to determine whether this section applies to the treatment works.

Effluent Testing: 1.0 mgd and Pretreatment Treatment Works. If the treatment works has a design flow greater than or equal to 1.0 mgd or it has (or is required to have) a pretreatment program, or is otherwise required by the permitting authority to provide the data, then provide effluent testing data for the following pollutants. Provide the indicated effluent testing information and any other information required by the permitting authority for each outfall through which effluent is discharged. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analyses conducted using 40 CFR Part 136 methods. In addition, these data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. Indicate in the blank rows provided below any data you may have on pollutants not specifically listed in this form. At a minimum, effluent testing data must be based on at least three pollutant scans and must be no more than four and one-half years old.

Outfall number: 001 (Complete once for each outfall discharging effluent to waters of the United States.)

POLLUTANT	MAXIMUM DAILY DISCHARGE				AVERAGE DAILY DISCHARGE					ANALYTICAL METHOD	ML/MDL
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples		
METALS (TOTAL RECOVERABLE), CYANIDE, PHENOLS, AND HARDNESS.											
ANTIMONY	0.005	mg/l	0.11	lbs/d	0.005	mg/l	0.08	lbs/d	3	E200.7	0.005 mg/l
ARSENIC	0.01	mg/l	0.22	lbs/d	0.01	mg/l	0.16	lbs/d	3	E200.7	0.010 mg/l
BERYLLIUM	0.001	mg/l	0.02	lbs/d	0.001	mg/l	0.02	lbs/d	3	E200.7	0.001 mg/l
CADMIUM	0.001	mg/l	0.02	lbs/d	0.001	mg/l	0.02	lbs/d	3	E200.7	0.001 mg/l
CHROMIUM	0.05	mg/l	1.1	lbs/d	0.05	mg/l	0.81	lbs/d	3	E200.7	0.050 mg/l
COPPER	0.05	mg/l	1.1	lbs/d	0.05	mg/l	0.81	lbs/d	3	E200.7	0.050 mg/l
LEAD	0.005	mg/l	0.11	lbs/d	0.005	mg/l	0.08	lbs/d	3	E200.7	0.005 mg/l
MERCURY	0.001	mg/l	0.02	lbs/d	0.001	mg/l	0.02	lbs/d	3	SW7470	0.0010 mg/l
NICKEL	0.05	mg/l	1.1	lbs/d	0.05	mg/l	0.81	lbs/d	3	E200.7	0.050 mg/l
SELENIUM	0.01	mg/l	0.22	lbs/d	0.01	mg/l	0.16	lbs/d	3	E270.2	0.010 mg/l
SILVER	0.05	mg/l	1.1	lbs/d	0.050	mg/l	0.81	lbs/d	3	E200.7	0.050 mg/l
THALLIUM	0.001	mg/l	0.02	lbs/d	0.001	mg/l	0.02	lbs/d	3	E200.9	0.001 mg/l
ZINC	0.237	mg/l	5.24	lbs/d	0.1123	mg/l	1.82	lbs/d	3	E200.7	0.050 mg/l
CYANIDE	0.01	mg/l	0.22	lbs/d	0.01	mg/l	0.16	lbs/d	3	M4500CNCE	0.010 mg/l
TOTAL PHENOLIC COMPOUNDS	0.10	mg/l	2.21	lbs/d	0.10	mg/l	1.62	lbs/d	3	M510AC	0.10 mg/l
HARDNESS (AS CaCO ₃)	126	mg/l	2785	lbs/d	96.6	mg/l	1568	lbs/d	3	M2340B	1.0 mg/l
Use this space (or a separate sheet) to provide information on other metals requested by the permit writer.											

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Outfall number: 001 (Complete once for each outfall discharging effluent to waters of the United States.)

POLLUTANT	MAXIMUM DAILY DISCHARGE				AVERAGE DAILY DISCHARGE					ANALYTICAL METHOD	ML/MQL
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples		
VOLATILE ORGANIC COMPOUNDS.											
ACROLEIN	< 0.10	mg/l	< 2.2	lbs/d	< 0.10	mg/l	< 1.6	lbs/d	3	SW8260B	0.100 mg/l
ACRYLONITRILE	< 0.10	mg/l	< 2.2	lbs/d	< 0.10	mg/l	< 1.6	lbs/d	3	SW8260B	0.100 mg/l
BENZENE	< 0.005	mg/l	< 0.11	lbs/d	< 0.005	mg/l	< 0.08	lbs/d	3	SW8260B	0.005 mg/l
BROMOFORM	< 0.005	mg/l	< 0.11	lbs/d	< 0.005	mg/l	< 0.08	lbs/d	3	SW8260B	0.00g mg/l
CARBON TETRACHLORIDE	< 0.005	mg/l	< 0.11	lbs/d	< 0.005	mg/l	< 0.08	lbs/d	3	SW8260B	0.005 mg/l
CLOROBENZENE	< 0.005	mg/l	< 0.11	lbs/d	< 0.005	mg/l	< 0.08	lbs/d	3	SW8260B	0.005 mg/l
CHLORODIBROMO-METHANE	< 0.005	mg/l	< 0.11	lbs/d	< 0.005	mg/l	< 0.08	lbs/d	3	SW8260B	0.005 mg/l
CHLOROETHANE	< 0.01	mg/l	< 0.22	lbs/d	< 0.01	mg/l	< 0.16	lbs/d	3	SW8260B	0.010 mg/l
2-CHLORO-ETHYL VINYL ETHER	< 0.01	mg/l	< 0.22	lbs/d	< 0.01	mg/l	< 0.16	lbs/d	3	SW8260B	0.010 mg/l
CHLOROFORM	< 0.005	mg/l	< 0.11	lbs/d	< 0.005	mg/l	< 0.08	lbs/d	3	SW8260B	0.005 mg/l
DICHLOROBROMO-METHANE	< 0.005	mg/l	< 0.11	lbs/d	< 0.005	mg/l	< 0.08	lbs/d	3	SW8260B	0.005 mg/l
1,1-DICHLOROETHANE	< 0.005	mg/l	< 0.11	lbs/d	< 0.005	mg/l	< 0.08	lbs/d	3	SW8260B	0.005 mg/l
1,2-DICHLOROETHANE	< 0.005	mg/l	< 0.11	lbs/d	< 0.005	mg/l	< 0.08	lbs/d	3	SW8260B	0.005 mg/l
TRANS-1,2-DICHLORO-ETHYLENE	< 0.005	mg/l	< 0.11	lbs/d	< 0.005	mg/l	< 0.08	lbs/d	3	SW8260B	0.005 mg/l
1,1-DICHLOROETHYLENE	< 0.005	mg/l	< 0.11	lbs/d	< 0.005	mg/l	< 0.08	lbs/d	3	SW8260B	0.005 mg/l
1,2-DICHLOROPROPANE	< 0.005	mg/l	< 0.11	lbs/d	< 0.005	mg/l	< 0.08	lbs/d	3	SW8260B	0.005 mg/l
1,3-DICHLORO-PROPYLENE	< 0.005	mg/l	< 0.11	lbs/d	< 0.005	mg/l	< 0.08	lbs/d	3	SW8260B	0.005 mg/l
ETHYLBENZENE	< 0.005	mg/l	< 0.11	lbs/d	< 0.005	mg/l	< 0.08	lbs/d	3	SW8260B	0.005 mg/l
METHYL BROMIDE	< 0.01	mg/l	< 0.22	lbs/d	< 0.01	mg/l	< 0.16	lbs/d	3	SW8260B	0.010 mg/l
METHYL CHLORIDE	< 0.005	mg/l	< 0.11	lbs/d	< 0.005	mg/l	< 0.08	lbs/d	3	SW8260B	0.005 mg/l
METHYLENE CHLORIDE	< 0.005	mg/l	< 0.11	lbs/d	< 0.005	mg/l	< 0.08	lbs/d	3	SW8260B	0.005 mg/l
1,1,2,2-TETRACHLORO-ETHANE	< 0.005	mg/l	< 0.11	lbs/d	< 0.005	mg/l	< 0.08	lbs/d	3	SW8260B	0.005 mg/l
TETRACHLORO-ETHYLENE	< 0.005	mg/l	< 0.11	lbs/d	< 0.005	mg/l	< 0.08	lbs/d	3	SW8260B	0.005 mg/l
TOLUENE	< 0.005	mg/l	< 0.11	lbs/d	< 0.005	mg/l	< 0.08	lbs/d	3	SW8260B	0.005 mg/l

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Outfall number: 001 (Complete once for each outfall discharging effluent to waters of the United States.)

POLLUTANT	MAXIMUM DAILY DISCHARGE				AVERAGE DAILY DISCHARGE					ANALYTICAL METHOD	ML/MDL
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples		
1,1,1-TRICHLOROETHANE	<0.005	mg/l	<0.11	lbs/d	<0.005	mg/l	<0.08	lbs/d	3	SW8260B	0.005 mg/l
1,1,2-TRICHLOROETHANE	<0.005	mg/l	<0.11	lbs/d	<0.005	mg/l	<0.08	lbs/d	3	SW8260B	0.005 mg/l
TRICHLOROETHYLENE	<0.005	mg/l	<0.11	lbs/d	<0.005	mg/l	<0.08	lbs/d	3	SW8260B	0.005 mg/l
VINYL CHLORIDE	<0.002	mg/l	<0.04	lbs/d	<0.002	mg/l	<0.03	lbs/d	3	SW8260B	0.002 mg/l

Use this space (or a separate sheet) to provide information on other volatile organic compounds requested by the permit writer.

ACID-EXTRACTABLE COMPOUNDS

P-CHLORO-M-CRESOL	<0.01	mg/l	<0.22	lbs/d	<0.01	mg/l	<0.16	lbs/d	3	E625	0.010 mg/l
2-CHLOROPHENOL	<0.01	mg/l	<0.22	lbs/d	<0.01	mg/l	<0.16	lbs/d	3	E625	0.010 mg/l
2,4-DICHLOROPHENOL	<0.01	mg/l	<0.22	lbs/d	<0.01	mg/l	<0.16	lbs/d	3	E625	0.010 mg/l
2,4-DIMETHYLPHENOL	<0.01	mg/l	<0.22	lbs/d	<0.01	mg/l	<0.16	lbs/d	3	E625	0.010 mg/l
4,6-DINITRO-O-CRESOL	<0.05	mg/l	<1.1	lbs/d	<0.05	mg/l	<0.8	lbs/d	3	E625	0.050 mg/l
2,4-DINITROPHENOL	<0.05	mg/l	<1.1	lbs/d	<0.05	mg/l	<0.8	lbs/d	3	E625	0.050 mg/l
2-NITROPHENOL	<0.01	mg/l	<0.22	lbs/d	<0.01	mg/l	<0.16	lbs/d	3	E625	0.010 mg/l
4-NITROPHENOL	<0.05	mg/l	<1.1	lbs/d	<0.05	mg/l	<0.8	lbs/d	3	E625	0.050 mg/l
PENTACHLOROPHENOL	<0.025	mg/l	<0.55	lbs/d	<0.025	mg/l	<0.4	lbs/d	3	E625	0.025 mg/l
PHENOL	<0.01	mg/l	<0.22	lbs/d	<0.01	mg/l	<0.16	lbs/d	3	E625	0.010 mg/l
2,4,6-TRICHLOROPHENOL	<0.01	mg/l	<0.22	lbs/d	<0.01	mg/l	<0.16	lbs/d	3	E625	0.010 mg/l

Use this space (or a separate sheet) to provide information on other acid-extractable compounds requested by the permit writer.

BASE-NEUTRAL COMPOUNDS.

ACENAPHTHENE	<0.01	mg/l	<0.22	lbs/d	<0.01	mg/l	<0.16	lbs/d	3	E625	0.010 mg/l
ACENAPHTHYLENE	<0.01	mg/l	<0.22	lbs/d	<0.01	mg/l	<0.16	lbs/d	3	E625	0.010 mg/l
ANTHRACENE	<0.01	mg/l	<0.22	lbs/d	<0.01	mg/l	<0.16	lbs/d	3	E625	0.010 mg/l
BENZIDINE	<0.05	mg/l	<1.1	lbs/d	<0.05	mg/l	<0.8	lbs/d	3	E625	0.050 mg/l
BENZO(A)ANTHRACENE	<0.01	mg/l	<0.22	lbs/d	<0.01	mg/l	<0.16	lbs/d	3	E625	0.010 mg/l

BENZO(A)PYRENE	< 0.01	mg/l	< 0.22	lbs/d	< 0.01	mg/l	< 0.16	lbs/d	3	E625	0.010 mg/l
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FACILITY NAME AND PERMIT NUMBER:

Demopolis WWTP; AL0043168

Form Approved 1/14/99
OMB Number 2040-0086

Outfall number: 001 (Complete once for each outfall discharging effluent to waters of the United States.)

POLLUTANT	MAXIMUM DAILY DISCHARGE				AVERAGE DAILY DISCHARGE					ANALYTICAL METHOD	ML/MDL
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples		
3,4 BENZO-FLUORANTHENE	< 0.01	mg/l	< 0.22	lbs/d	< 0.01	mg/l	< 0.16	lbs/d	3	E625	0.010 mg/l
BENZO(GH)PERYLENE	< 0.01	mg/l	< 0.22	lbs/d	< 0.01	mg/l	< 0.16	lbs/d	3	E625	0.010 mg/l
BENZO(K)FLUORANTHENE	< 0.01	mg/l	< 0.22	lbs/d	< 0.01	mg/l	< 0.16	lbs/d	3	E625	0.010 mg/l
BIS (2-CHLOROETHOXY) METHANE	< 0.01	mg/l	< 0.22	lbs/d	< 0.01	mg/l	< 0.16	lbs/d	3	E625	0.010 mg/l
BIS (2-CHLOROETHYL) ETHER	< 0.01	mg/l	< 0.22	lbs/d	< 0.01	mg/l	< 0.16	lbs/d	3	E625	0.010 mg/l
BIS (2-CHLOROISO-PROPYL) ETHER	< 0.01	mg/l	< 0.22	lbs/d	< 0.01	mg/l	< 0.16	lbs/d	3	E625	0.010 mg/l
BIS (2-ETHYLHEXYL) PHTHALATE	< 0.01	mg/l	< 0.22	lbs/d	< 0.01	mg/l	< 0.16	lbs/d	3	E625	0.010 mg/l
4-BROMOPHENYL PHENYL ETHER	< 0.01	mg/l	< 0.22	lbs/d	< 0.01	mg/l	< 0.16	lbs/d	3	E625	0.010 mg/l
BUTYL BENZYL PHTHALATE	< 0.01	mg/l	< 0.22	lbs/d	< 0.01	mg/l	< 0.16	lbs/d	3	E625	0.010 mg/l
2-CHLORONAPHTHALENE	< 0.01	mg/l	< 0.22	lbs/d	< 0.01	mg/l	< 0.16	lbs/d	3	E625	0.010 mg/l
4-CHLOROPHENYL PHENYL ETHER	< 0.01	mg/l	< 0.22	lbs/d	< 0.01	mg/l	< 0.16	lbs/d	3	E625	0.010 mg/l
CHRYSENE	< 0.01	mg/l	< 0.22	lbs/d	< 0.01	mg/l	< 0.16	lbs/d	3	E625	0.010 mg/l
DI-N-BUTYL PHTHALATE	< 0.01	mg/l	< 0.22	lbs/d	< 0.01	mg/l	< 0.16	lbs/d	3	E625	0.010 mg/l
DI-N-OCTYL PHTHALATE	< 0.01	mg/l	< 0.22	lbs/d	< 0.01	mg/l	< 0.16	lbs/d	3	E625	0.010 mg/l
DIBENZO(A,H) ANTHRACENE	< 0.01	mg/l	< 0.22	lbs/d	< 0.01	mg/l	< 0.16	lbs/d	3	E625	0.010 mg/l
1,2-DICHLOROBENZENE	< 0.01	mg/l	< 0.22	lbs/d	< 0.01	mg/l	< 0.16	lbs/d	3	E625	0.010 mg/l
1,3-DICHLOROBENZENE	< 0.01	mg/l	< 0.22	lbs/d	< 0.01	mg/l	< 0.16	lbs/d	3	E625	0.010 mg/l
1,4-DICHLOROBENZENE	< 0.01	mg/l	< 0.22	lbs/d	< 0.01	mg/l	< 0.16	lbs/d	3	E625	0.010 mg/l
3,3-DICHLOROBENZIDINE	< 0.02	mg/l	< 0.44	lbs/d	< 0.02	mg/l	< 0.32	lbs/d	3	E625	0.010 mg/l
DIETHYL PHTHALATE	< 0.01	mg/l	< 0.22	lbs/d	< 0.01	mg/l	< 0.16	lbs/d	3	E625	0.010 mg/l
DIMETHYL PHTHALATE	< 0.01	mg/l	< 0.22	lbs/d	< 0.01	mg/l	< 0.16	lbs/d	3	E625	0.010 mg/l
2,4-DINITROTOLUENE	< 0.01	mg/l	< 0.22	lbs/d	< 0.01	mg/l	< 0.16	lbs/d	3	E625	0.010 mg/l
2,6-DINITROTOLUENE	< 0.01	mg/l	< 0.22	lbs/d	< 0.01	mg/l	< 0.16	lbs/d	3	E625	0.010 mg/l

1,2-DIPHENYLHYDRAZINE	0.05	mg/l	1.1	lbs/d	0.05	mg/l	0.8	lbs/d	3	E625	0.050 mg/l
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FACILITY NAME AND PERMIT NUMBER:

Demopolis WWP; AL0043168

Form Approved 1/14/89
OMB Number 2040-0086

Outfall number: 001 (Complete once for each outfall discharging effluent to waters of the United States.)

POLLUTANT	MAXIMUM DAILY DISCHARGE				AVERAGE DAILY DISCHARGE					ANALYTICAL METHOD	ML/MDL
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples		
FLUORANTHENE	0.01	mg/l	0.22	lbs/d	0.01	mg/l	0.16	lbs/d	3	E625	0.010 mg/l
FLUORENE	0.01	mg/l	0.22	lbs/d	0.01	mg/l	0.16	lbs/d	3	E625	0.010 mg/l
HEXACHLOROBENZENE	0.01	mg/l	0.22	lbs/d	0.01	mg/l	0.16	lbs/d	3	E625	0.010 mg/l
HEXACHLOROBUTADIENE	0.01	mg/l	0.22	lbs/d	0.01	mg/l	0.16	lbs/d	3	E625	0.010 mg/l
HEXACHLOROCYCLO-PENTADIENE	0.01	mg/l	0.22	lbs/d	0.01	mg/l	0.16	lbs/d	3	E625	0.010 mg/l
HEXACHLOROETHANE	0.01	mg/l	0.22	lbs/d	0.01	mg/l	0.16	lbs/d	3	E625	0.010 mg/l
INDENO(1,2,3-CD)PYRENE	0.01	mg/l	0.22	lbs/d	0.01	mg/l	0.16	lbs/d	3	E625	0.010 mg/l
ISOPHORONE	0.01	mg/l	0.22	lbs/d	0.01	mg/l	0.16	lbs/d	3	E625	0.010 mg/l
NAPHTHALENE	0.01	mg/l	0.22	lbs/d	0.01	mg/l	0.16	lbs/d	3	E625	0.010 mg/l
NITROBENZENE	0.01	mg/l	0.22	lbs/d	0.01	mg/l	0.16	lbs/d	3	E625	0.010 mg/l
N-NITROSODI-N-PROPYLAMINE	0.01	mg/l	0.22	lbs/d	0.01	mg/l	0.16	lbs/d	3	E625	0.010 mg/l
N-NITROSODI- METHYLAMINE	0.01	mg/l	0.22	lbs/d	0.01	mg/l	0.16	lbs/d	3	E625	0.010 mg/l
N-NITROSODI-PHENYLAMINE	0.01	mg/l	0.22	lbs/d	0.01	mg/l	0.16	lbs/d	3	E625	0.010 mg/l
PHENANTHRENE	0.01	mg/l	0.22	lbs/d	0.01	mg/l	0.16	lbs/d	3	E625	0.010 mg/l
PYRENE	0.01	mg/l	0.22	lbs/d	0.01	mg/l	0.16	lbs/d	3	E625	0.010 mg/l
1,2,4-TRICHLOROBENZENE	0.01	mg/l	0.22	lbs/d	0.01	mg/l	0.16	lbs/d	3	E625	0.010 mg/l

Use this space (or a separate sheet) to provide information on other base-neutral compounds requested by the permit writer.

Use this space (or a separate sheet) to provide information on other pollutants (e.g., pesticides) requested by the permit writer.

END OF PART D.
REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE



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June 25, 2008

Mr. Byron Cook
Demopolis Water Works & Sewer Board
2101 Water Avenue
Demopolis, AL 36732

RE: WWTP Effluent - Form 2A
Work Order Number: 080523025

Dear Client:

TTL, Inc. received sample(s) on Friday, May 23, 2008 for the analyses presented in the attached report.

If you should have any questions regarding these analyses, please feel free to call. The work order number shown above will assist us in accessing your data more efficiently.

Thank you for the opportunity to provide these services.

Sincerely,
TTL, Inc.

Steve Martin
Chemist

Attachments



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Date: 25-Jun-08

CLIENT: Demopolis Water Works & Sewer Board
Project: WWTP Effluent - Form 2A
Lab Order: 080623026

CASE NARRATIVE

The samples were analyzed in general accordance with methods outlined in 40 CFR, Part 136.



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Date: 25-Jun-08

CLIENT: Demopolis Water Works & Sewer Board **Client Sample ID:** WWTP - Effluent
Lab Order: 080523026
Project: WWTP Effluent - Form 2A **Collection Date:** 5/23/2008 10:10:00 AM
Lab ID: 080523025-001 **Matrix:** Aqueous

Analyses	Result	Limit	Units	DF	Date Analyzed
FECAL COLIFORM, MPN		A908C	Prep:		Analyst: TDW
Fecal Coliform	62	1	CFU/100ml	1	05/23/2008 14:40
TOTAL HARDNESS		M2340 B	Prep:(E200.7)	05/23/2008 15:48	Analyst: HTP
Hardness, Calcium/Magnesium (As CaCO ₃)	126	1.00	mg/L	1	05/29/2008 8:40
MERCURY, TOTAL RECOVERABLE		SW7470	Prep:(SW7470A)	05/27/2008 6:45	Analyst: GAH
Mercury, as Hg	< 0.0010	0.0010	mg/L	1	05/27/2008 13:31
ICP METALS, TOTAL RECOVERABLE		E200.7	Prep:(E4.1.1)	05/24/2008 8:45	Analyst: HTP
Antimony, as Sb	< 0.005	0.005	mg/L	1	05/28/2008 8:25
Arsenic, as As	< 0.010	0.010	mg/L	1	05/28/2008 8:25
Beryllium, as Be	< 0.001	0.001	mg/L	1	05/28/2008 8:25
Cadmium, as Cd	< 0.001	0.001	mg/L	1	05/28/2008 8:25
Chromium, as Cr	< 0.050	0.050	mg/L	1	05/28/2008 8:25
Copper, as Cu	< 0.050	0.050	mg/L	1	05/28/2008 8:25
Lead, as Pb	< 0.005	0.005	mg/L	1	05/28/2008 8:25
Nickel, as Ni	< 0.050	0.050	mg/L	1	05/28/2008 8:25
Silver, as Ag	< 0.050	0.050	mg/L	1	05/28/2008 8:25
Zinc, as Zn	0.237	0.050	mg/L	1	05/28/2008 8:25
SELENIUM IN WASTEWATER		E270.2	Prep:(E200.7)	05/23/2008 15:48	Analyst: GAH
Selenium	< 0.010	0.010	mg/L	1	05/27/2008 10:17
TL TOTAL RECOVERABLE BY GFAA		E200.9	Prep:(E4.1.1)	05/24/2008 8:45	Analyst: GAH
Thallium, as Tl	< 0.001	0.001	mg/L	1	06/03/2008 9:09
SEMIVOLATILE ORGANICS BY 825		E625	Prep:(E625)	05/29/2008 15:51	Analyst: VJB
1,2,4-Trichlorobenzene	< 0.010	0.010	mg/L	1	06/21/2008 8:49
1,2-Dichlorobenzene	< 0.010	0.010	mg/L	1	06/21/2008 8:49
1,2-Diphenylhydrazine	< 0.050	0.050	mg/L	1	06/21/2008 8:49
1,3-Dichlorobenzene	< 0.010	0.010	mg/L	1	06/21/2008 8:49
1,4-Dichlorobenzene	< 0.010	0.010	mg/L	1	06/21/2008 8:49
2,4,6-Trichlorophenol	< 0.010	0.010	mg/L	1	06/21/2008 8:49
2,4-Dichlorophenol	< 0.010	0.010	mg/L	1	06/21/2008 8:49
2,4-Dimethylphenol	< 0.010	0.010	mg/L	1	06/21/2008 8:49
2,4-Dinitrophenol	< 0.050	0.050	mg/L	1	06/21/2008 8:49
2,4-Dinitrotoluene	< 0.010	0.010	mg/L	1	06/21/2008 8:49
2,6-Dinitrotoluene	< 0.010	0.010	mg/L	1	06/21/2008 8:49
2-Chloronaphthalene	< 0.010	0.010	mg/L	1	06/21/2008 8:49
2-Chlorophenol	< 0.010	0.010	mg/L	1	06/21/2008 8:49
2-Nitrophenol	< 0.010	0.010	mg/L	1	06/21/2008 8:49



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Tuscaloosa, AL 35401

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Date: 25-Jun-08

CLIENT: Demopolis Water Works & Sewer Board **Client Sample ID:** WWTP - Effluent
Lab Order: 080623025
Project: WWTP Effluent - Form 2A **Collection Date:** 5/23/2008 10:10:00 AM
Lab ID: 080623025-001 **Matrix:** Aqueous

Analyses	Result	Limit	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS BY 625					
		E625	Prep:(E625)	05/29/2008 16:51	Analyst: VJB
3,3'-Dichlorobenzidine	< 0.020	0.020	mg/L	1	06/21/2008 8:49
4,6-Dinitro-2-methylphenol	< 0.050	0.050	mg/L	1	06/21/2008 8:49
4-Bromophenyl phenyl ether	< 0.010	0.010	mg/L	1	06/21/2008 8:49
4-Chloro-3-methylphenol	< 0.010	0.010	mg/L	1	06/21/2008 8:49
4-Chlorophenyl phenyl ether	< 0.010	0.010	mg/L	1	06/21/2008 8:49
4-Nitrophenol	< 0.050	0.050	mg/L	1	06/21/2008 8:49
Acenaphthene	< 0.010	0.010	mg/L	1	06/21/2008 8:49
Acenaphthylene	< 0.010	0.010	mg/L	1	06/21/2008 8:49
Anthracene	< 0.010	0.010	mg/L	1	06/21/2008 8:49
Benz(a)anthracene	< 0.010	0.010	mg/L	1	06/21/2008 8:49
Benzidine	< 0.050	0.050	mg/L	1	06/21/2008 8:49
Benzo(a)pyrene	< 0.010	0.010	mg/L	1	06/21/2008 8:49
Benzo(b)fluoranthene	< 0.010	0.010	mg/L	1	06/21/2008 8:49
Benzo(g,h,i)perylene	< 0.010	0.010	mg/L	1	06/21/2008 8:49
Benzo(k)fluoranthene	< 0.010	0.010	mg/L	1	06/21/2008 8:49
Bis(2-chloroethoxy)methane	< 0.010	0.010	mg/L	1	06/21/2008 8:49
Bis(2-chloroethyl)ether	< 0.010	0.010	mg/L	1	06/21/2008 8:49
Bis(2-chloroisopropyl)ether	< 0.010	0.010	mg/L	1	06/21/2008 8:49
Bis(2-ethylhexyl)phthalate	< 0.010	0.010	mg/L	1	06/21/2008 8:49
Butyl benzyl phthalate	< 0.010	0.010	mg/L	1	06/21/2008 8:49
Chrysene	< 0.010	0.010	mg/L	1	06/21/2008 8:49
Dibenz(a,h)anthracene	< 0.010	0.010	mg/L	1	06/21/2008 8:49
Diethyl phthalate	< 0.010	0.010	mg/L	1	06/21/2008 8:49
Dimethyl phthalate	< 0.010	0.010	mg/L	1	06/21/2008 8:49
DI-n-butyl phthalate	< 0.010	0.010	mg/L	1	06/21/2008 8:49
DI-n-octyl phthalate	< 0.010	0.010	mg/L	1	06/21/2008 8:49
Fluoranthene	< 0.010	0.010	mg/L	1	06/21/2008 8:49
Fluorene	< 0.010	0.010	mg/L	1	06/21/2008 8:49
Hexachlorobenzene	< 0.010	0.010	mg/L	1	06/21/2008 8:49
Hexachlorobutadiene	< 0.010	0.010	mg/L	1	06/21/2008 8:49
Hexachlorocyclopentadiene	< 0.010	0.010	mg/L	1	06/21/2008 8:49
Hexachloroethane	< 0.010	0.010	mg/L	1	06/21/2008 8:49
Indeno(1,2,3-cd)pyrene	< 0.010	0.010	mg/L	1	06/21/2008 8:49
Isophorone	< 0.010	0.010	mg/L	1	06/21/2008 8:49
Naphthalene	< 0.010	0.010	mg/L	1	06/21/2008 8:49
Nitrobenzene	< 0.010	0.010	mg/L	1	06/21/2008 8:49
N-Nitrosodimethylamine	< 0.010	0.010	mg/L	1	06/21/2008 8:49
N-Nitrosodi-n-propylamine	< 0.010	0.010	mg/L	1	06/21/2008 8:49
N-Nitrosodiphenylamine	< 0.010	0.010	mg/L	1	06/21/2008 8:49



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Date: 25-Jun-08

CLIENT: Demopolis Water Works & Sewer Board **Client Sample ID:** WWTP - Effluent
Lab Order: 080523025
Project: WWTP Effluent - Form 2A **Collection Date:** 5/23/2008 10:10:00 AM
Lab ID: 080523025-001 **Matrix:** Aqueous

Analyses	Result	Limit	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS BY 625					
		E625	Prep:(E625)	05/29/2008 16:51	Analyst: VJB
Pentachlorophenol	< 0.025	0.025	mg/L	1	06/21/2008 8:49
Phenanthrene	< 0.010	0.010	mg/L	1	06/21/2008 8:49
Phenol	< 0.010	0.010	mg/L	1	06/21/2008 8:49
Pyrene	< 0.010	0.010	mg/L	1	06/21/2008 8:49
VOLATILES BY GC/MS METHOD 624					
		SW8260B	Prep:		Analyst: VJB
1,1,1-Trichloroethane	< 0.005	0.005	mg/L	1	05/28/2008 13:49
1,1,2,2-Tetrachloroethane	< 0.005	0.005	mg/L	1	05/28/2008 13:49
1,1,2-Trichloroethane	< 0.005	0.005	mg/L	1	05/28/2008 13:49
1,1-Dichloroethane	< 0.005	0.005	mg/L	1	05/28/2008 13:49
1,1-Dichloroethene	< 0.005	0.005	mg/L	1	06/28/2008 13:49
1,2-Dichloroethane	< 0.005	0.005	mg/L	1	05/28/2008 13:49
1,2-Dichloropropane	< 0.005	0.005	mg/L	1	05/28/2008 13:49
2-Chloroethyl vinyl ether	< 0.010	0.010	mg/L	1	05/28/2008 13:49
Acrolein	< 0.100	0.100	mg/L	1	05/28/2008 13:49
Acrylonitrile	< 0.100	0.100	mg/L	1	05/28/2008 13:49
Benzene	< 0.005	0.005	mg/L	1	05/28/2008 13:49
Bromodichloromethane	< 0.005	0.005	mg/L	1	05/28/2008 13:49
Bromoform	< 0.005	0.005	mg/L	1	05/28/2008 13:49
Bromomethane	< 0.010	0.010	mg/L	1	05/28/2008 13:49
Carbon tetrachloride	< 0.005	0.005	mg/L	1	05/28/2008 13:49
Chlorobenzene	< 0.005	0.005	mg/L	1	05/28/2008 13:49
Chloroethane	< 0.010	0.010	mg/L	1	05/28/2008 13:49
Chloroform	< 0.005	0.005	mg/L	1	05/28/2008 13:49
Chloromethane	< 0.005	0.005	mg/L	1	05/28/2008 13:49
cis-1,3-Dichloropropene	< 0.005	0.005	mg/L	1	05/28/2008 13:49
Dibromochloromethane	< 0.005	0.005	mg/L	1	05/28/2008 13:49
Ethylbenzene	< 0.005	0.005	mg/L	1	05/28/2008 13:49
Methylene chloride	0.005	0.005	mg/L	1	05/28/2008 13:49
Tetrachloroethene	< 0.005	0.005	mg/L	1	05/28/2008 13:49
Toluene	< 0.005	0.005	mg/L	1	05/28/2008 13:49
trans-1,2-Dichloroethene	< 0.005	0.005	mg/L	1	05/28/2008 13:49
trans-1,3-Dichloropropene	< 0.005	0.005	mg/L	1	05/28/2008 13:49
Trichloroethene	< 0.005	0.005	mg/L	1	05/28/2008 13:49
Vinyl chloride	< 0.002	0.002	mg/L	1	05/28/2008 13:49
ANIONS BY ION CHROMATOGRAPHY					
		E300	Prep:		Analyst: RWF
Nitrogen, Nitrate, as NO3-N	23.4	0.50	mg/L	5	05/28/2008 18:54
Nitrogen, Nitrite, as NO2-N	< 0.50	0.50	mg/L	5	06/28/2008 18:54
Total Nitrate-Nitrite, mg/L as N	23.4	0.50	mg/L	5	05/28/2008 18:54



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Date: 25-Jun-08

CLIENT: Demopolis Water Works & Sewer Board Client Sample ID: WWTP - Effluent
Lab Order: 080523025
Project: WWTP Effluent - Form 2A Collection Date: 5/23/2008 10:10:00 AM
Lab ID: 080523025-001 Matrix: Aqueous

Analyses	Result	Limit	Units	DF	Date Analyzed
CBOD, 5 DAY, 20°C Carbonaceous Biochemical Oxygen Demand	< 1.0	M5210 B 4E6 1.0	Prep:(M5210 B) mg/L	05/23/2008 13:20 1	Analyst: JSM 05/23/2008 13:20
CHLORINE, TOTAL RESIDUAL Total Residual Chlorine	0.09	M4500-CL G 0.01	Prep: mg/L	1	Analyst: OPH 05/23/2008 10:10
CYANIDE, TOTAL Cyanide, Total	< 0.010	M4500-CN CE 0.010	Prep: mg/L	1	Analyst: JSM 05/27/2008 8:00
DISSOLVED OXYGEN Oxygen, Dissolved	7.0	M4500-O G 0.1	Prep: mg/L	1	Analyst: OPH 05/23/2008 10:10
AMMONIA AS N Nitrogen, Ammonia as N	5.87	M4500-NH3 BF 0.05	Prep: mg/L	1	Analyst: TBW 05/27/2008 22:00
OIL AND GREASE BY 1664 Oil and Grease	19.2	E1664 1.0	Prep: mg/L	1	Analyst: JSM 05/30/2008 8:19
PHOSPHORUS, TOTAL Phosphorus as P	1.87	M4500-P B5 0.05	Prep: mg/L	1	Analyst: LFW 06/10/2008 9:45
PH IN THE FIELD pH	7.94	M4500-HB 0	Prep: pH Units	1	Analyst: OPH 05/23/2008 10:10
PHENOLICS, TOTAL RECOVERABLE Phenolics, Total Recoverable	< 0.10	M510 AC 0.10	Prep: mg/L	1	Analyst: TBW 05/28/2008 13:00
TOTAL DISSOLVED SOLIDS Total Dissolved Solids	872	M2540 C 20.0	Prep: mg/L	1	Analyst: LFW 05/23/2008 12:30
TEMPERATURE, DEGREES C Temperature	14.6	E170.1 0	Prep: °C	1	Analyst: OPH 05/23/2008 10:10
TOTAL KJELDAHL NITROGEN Nitrogen, Kjeldahl, Total as N	40.5	M4500-N B 0.05	Prep: mg/L	1	Analyst: TBW 05/27/2008 22:00
TOTAL SUSPENDED SOLIDS Total Suspended Solids	5	USG83765 1	Prep: mg/L	1	Analyst: JJD 05/28/2008 13:00



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Date: 25-Jun-08

CLIENT: Demopolis Water Works & Sewer Board **Client Sample ID:** Trip Blank
Lab Order: 080523025
Project: WWTP Effluent - Form 2A **Collection Date:** 5/23/2008
Lab ID: 080523025-002 **Matrix:** Aqueous

Analyses	Result	Limit	Units	DF	Date Analyzed
VOLATILES BY GC/MS METHOD 624					
		SW8260B	Prep:		Analyst: VJB
1,1,1-Trichloroethane	< 0.005	0.005	mg/L	1	05/28/2008 14:27
1,1,2,2-Tetrachloroethane	< 0.005	0.005	mg/L	1	05/28/2008 14:27
1,1,2-Trichloroethane	< 0.005	0.005	mg/L	1	05/28/2008 14:27
1,1-Dichloroethane	< 0.005	0.005	mg/L	1	05/28/2008 14:27
1,1-Dichloroethene	< 0.005	0.005	mg/L	1	05/28/2008 14:27
1,2-Dichloroethane	< 0.005	0.005	mg/L	1	05/28/2008 14:27
1,2-Dichloropropane	< 0.005	0.005	mg/L	1	05/28/2008 14:27
2-Chloroethyl vinyl ether	< 0.010	0.010	mg/L	1	05/28/2008 14:27
Acrolein	< 0.100	0.100	mg/L	1	05/28/2008 14:27
Acrylonitrile	< 0.100	0.100	mg/L	1	05/28/2008 14:27
Benzene	< 0.005	0.005	mg/L	1	05/28/2008 14:27
Bromodichloromethane	< 0.005	0.005	mg/L	1	05/28/2008 14:27
Bromofom	< 0.005	0.005	mg/L	1	05/28/2008 14:27
Bromomethane	< 0.010	0.010	mg/L	1	05/28/2008 14:27
Carbon tetrachloride	< 0.005	0.005	mg/L	1	05/28/2008 14:27
Chlorobenzene	< 0.005	0.005	mg/L	1	05/28/2008 14:27
Chloroethane	< 0.010	0.010	mg/L	1	05/28/2008 14:27
Chloroform	< 0.005	0.005	mg/L	1	05/28/2008 14:27
Chloromethane	< 0.005	0.005	mg/L	1	05/28/2008 14:27
cis-1,3-Dichloropropene	< 0.005	0.005	mg/L	1	05/28/2008 14:27
Dibromochloromethane	< 0.005	0.005	mg/L	1	05/28/2008 14:27
Ethylbenzene	< 0.005	0.005	mg/L	1	05/28/2008 14:27
Methylene chloride	< 0.005	0.005	mg/L	1	05/28/2008 14:27
Tetrachloroethene	< 0.005	0.005	mg/L	1	05/28/2008 14:27
Toluene	< 0.005	0.005	mg/L	1	05/28/2008 14:27
trans-1,2-Dichloroethene	< 0.005	0.005	mg/L	1	05/28/2008 14:27
trans-1,3-Dichloropropene	< 0.005	0.005	mg/L	1	05/28/2008 14:27
Trichloroethene	< 0.005	0.005	mg/L	1	05/28/2008 14:27
Vinyl chloride	< 0.002	0.002	mg/L	1	05/28/2008 14:27



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September 12, 2008

Mr. Byron Cook
Demopolis Water Works & Sewer Board
2101 Water Avenue
Demopolis, AL 36732

RE: EPA Form 2A - Effluent
Work Order Number: **080822032**

Dear Client:

TTL, Inc. received sample(s) on Friday, August 22, 2008 for the analyses presented in the attached report.

If you should have any questions regarding these analyses, please feel free to call. The work order number shown above will assist us in accessing your data more efficiently.

Thank you for the opportunity to provide these services.

Sincerely,
TTL, Inc.

Steve Martin
Chemist

Attachments



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Date: 12-Sep-08

CLIENT: Demopolis Water Works & Sewer Board
Project: EPA Form 2A - Effluent
Lab Order: 080822032

CASE NARRATIVE

The samples were analyzed in general accordance with methods outlined in 40 CFR, Part 136.

**Algae present in sample



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Date: 12-Sep-08

CLIENT: Demopolis Water Works & Sewer Board **Client Sample ID:** Effluent
Lab Order: 080822032
Project: EPA Form 2A - Effluent **Collection Date:** 8/22/2008 10:21:00 AM
Lab ID: 080822032-001 **Matrix:** Aqueous

Analyses	Result	Limit	Units	DF	Date Analyzed
FECAL COLIFORM, MPN		A908C	Prep:		Analyst: SAS
Fecal Coliform	570	1	CFU/100ml	1	08/22/2008 13:55
TOTAL HARDNESS		M2340 B	Prep:(E200.7)	08/22/2008 15:39	Analyst: HTP
Hardness, Calcium/Magnesium (As CaCO ₃)	115	1.00	mg/L	1	08/28/2008 9:30
MERCURY, TOTAL RECOVERABLE		SW7470	Prep:(SW7470A)	08/28/2008 6:57	Analyst: GAH
Mercury, as Hg	< 0.0010	0.0010	mg/L	1	08/28/2008 9:23
ICP METALS, TOTAL RECOVERABLE		E200.7	Prep:(E4.1.1)	08/22/2008 15:40	Analyst: HTP
Antimony, as Sb	< 0.005	0.005	mg/L	1	08/26/2008 8:10
Arsenic, as As	< 0.010	0.010	mg/L	1	08/26/2008 8:10
Beryllium, as Be	< 0.001	0.001	mg/L	1	08/26/2008 8:10
Cadmium, as Cd	< 0.001	0.001	mg/L	1	08/26/2008 8:10
Chromium, as Cr	< 0.050	0.050	mg/L	1	08/26/2008 8:10
Copper, as Cu	< 0.050	0.050	mg/L	1	08/26/2008 8:10
Lead, as Pb	< 0.005	0.005	mg/L	1	08/26/2008 8:10
Nickel, as Ni	< 0.050	0.050	mg/L	1	08/26/2008 8:10
Silver, as Ag	< 0.050	0.050	mg/L	1	08/26/2008 8:10
Zinc, as Zn	< 0.050	0.050	mg/L	1	08/26/2008 8:10
SELENIUM IN WASTEWATER		E270.2	Prep:(E200.7)	08/22/2008 15:39	Analyst: GAH
Selenium	< 0.010	0.010	mg/L	1	08/25/2008 10:54
TL TOTAL RECOVERABLE BY GFAA		E200.9	Prep:(E4.1.1)	08/22/2008 15:40	Analyst: GAH
Thallium, as Tl	< 0.001	0.001	mg/L	1	08/25/2008 8:59
SEMIVOLATILE ORGANICS BY 825		E625	Prep:(E625)	08/28/2008 16:09	Analyst: VJB
1,2,4-Trichlorobenzene	< 0.010	0.010	mg/L	1	09/11/2008 2:56
1,2-Dichlorobenzene	< 0.010	0.010	mg/L	1	09/11/2008 2:56
1,2-Diphenylhydrazine	< 0.050	0.050	mg/L	1	09/11/2008 2:56
1,3-Dichlorobenzene	< 0.010	0.010	mg/L	1	09/11/2008 2:56
1,4-Dichlorobenzene	< 0.010	0.010	mg/L	1	09/11/2008 2:56
2,4,6-Trichlorophenol	< 0.010	0.010	mg/L	1	09/11/2008 2:56
2,4-Dichlorophenol	< 0.010	0.010	mg/L	1	09/11/2008 2:56
2,4-Dimethylphenol	< 0.010	0.010	mg/L	1	09/11/2008 2:56
2,4-Dinitrophenol	< 0.050	0.050	mg/L	1	09/11/2008 2:56
2,4-Dinitrotoluene	< 0.010	0.010	mg/L	1	09/11/2008 2:56
2,6-Dinitrotoluene	< 0.010	0.010	mg/L	1	09/11/2008 2:56
2-Chloronaphthalene	< 0.010	0.010	mg/L	1	09/11/2008 2:56
2-Chlorophenol	< 0.010	0.010	mg/L	1	09/11/2008 2:56
2-Nitrophenol	< 0.010	0.010	mg/L	1	09/11/2008 2:56



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Date: 12-Sep-08

CLIENT: Demopolis Water Works & Sewer Board **Client Sample ID:** Effluent
Lab Order: 080822032
Project: EPA Form 2A - Effluent **Collection Date:** 8/22/2008 10:21:00 AM
Lab ID: 080822032-001 **Matrix:** Aqueous

Analyses	Result	Limit	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS BY 625					
		E625	Prep:(E625)	08/28/2008 18:09	Analyst: VJB
3,3'-Dichlorobenzidine	< 0.020	0.020	mg/L	1	09/11/2008 2:58
4,6-Dinitro-2-methylphenol	< 0.050	0.050	mg/L	1	09/11/2008 2:58
4-Bromophenyl phenyl ether	< 0.010	0.010	mg/L	1	09/11/2008 2:58
4-Chloro-3-methylphenol	< 0.010	0.010	mg/L	1	09/11/2008 2:58
4-Chlorophenyl phenyl ether	< 0.010	0.010	mg/L	1	09/11/2008 2:58
4-Nitrophenol	< 0.050	0.050	mg/L	1	09/11/2008 2:58
Acenaphthene	< 0.010	0.010	mg/L	1	09/11/2008 2:58
Acenaphthylene	< 0.010	0.010	mg/L	1	09/11/2008 2:58
Anthracene	< 0.010	0.010	mg/L	1	09/11/2008 2:58
Benz(a)anthracene	< 0.010	0.010	mg/L	1	09/11/2008 2:58
Benzidine	< 0.050	0.050	mg/L	1	09/11/2008 2:58
Benzo(a)pyrene	< 0.010	0.010	mg/L	1	09/11/2008 2:58
Benzo(b)fluoranthene	< 0.010	0.010	mg/L	1	09/11/2008 2:58
Benzo(g,h,i)perylene	< 0.010	0.010	mg/L	1	09/11/2008 2:58
Benzo(k)fluoranthene	< 0.010	0.010	mg/L	1	09/11/2008 2:58
Bis(2-chloroethoxy)methane	< 0.010	0.010	mg/L	1	09/11/2008 2:58
Bis(2-chloroethyl)ether	< 0.010	0.010	mg/L	1	09/11/2008 2:58
Bis(2-chloroisopropyl)ether	< 0.010	0.010	mg/L	1	09/11/2008 2:58
Bis(2-ethylhexyl)phthalate	< 0.010	0.010	mg/L	1	09/11/2008 2:58
Butyl benzyl phthalate	< 0.010	0.010	mg/L	1	09/11/2008 2:58
Chrysene	< 0.010	0.010	mg/L	1	09/11/2008 2:58
Dibenz(a,h)anthracene	< 0.010	0.010	mg/L	1	09/11/2008 2:58
Diethyl phthalate	< 0.010	0.010	mg/L	1	09/11/2008 2:58
Dimethyl phthalate	< 0.010	0.010	mg/L	1	09/11/2008 2:58
Di-n-butyl phthalate	< 0.010	0.010	mg/L	1	09/11/2008 2:58
Di-n-octyl phthalate	< 0.010	0.010	mg/L	1	09/11/2008 2:58
Fluoranthene	< 0.010	0.010	mg/L	1	09/11/2008 2:58
Fluorene	< 0.010	0.010	mg/L	1	09/11/2008 2:58
Hexachlorobenzene	< 0.010	0.010	mg/L	1	09/11/2008 2:58
Hexachlorobutadiene	< 0.010	0.010	mg/L	1	09/11/2008 2:58
Hexachlorocyclopentadiene	< 0.010	0.010	mg/L	1	09/11/2008 2:58
Hexachloroethane	< 0.010	0.010	mg/L	1	09/11/2008 2:58
Indeno(1,2,3-cd)pyrene	< 0.010	0.010	mg/L	1	09/11/2008 2:58
Isophorone	< 0.010	0.010	mg/L	1	09/11/2008 2:58
Naphthalene	< 0.010	0.010	mg/L	1	09/11/2008 2:58
Nitrobenzene	< 0.010	0.010	mg/L	1	09/11/2008 2:58
N-Nitrosodimethylamine	< 0.010	0.010	mg/L	1	09/11/2008 2:58
N-Nitrosodi-n-propylamine	< 0.010	0.010	mg/L	1	09/11/2008 2:58
N-Nitrosodiphenylamine	< 0.010	0.010	mg/L	1	09/11/2008 2:58



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Date: 12-Sep-08

CLIENT: Demopolis Water Works & Sewer Board **Client Sample ID:** Effluent
Lab Order: 080822032
Project: EPA Form 2A - Effluent **Collection Date:** 8/22/2008 10:21:00 AM
Lab ID: 080822032-001 **Matrix:** Aqueous

Analyses	Result	Limit	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS BY 625					
		E625	Prep:(E625)	08/28/2008 16:09	Analyst: VJB
Pentachlorophenol	< 0.025	0.025	mg/L	1	09/11/2008 2:56
Phenanthrene	< 0.010	0.010	mg/L	1	09/11/2008 2:56
Phenol	< 0.010	0.010	mg/L	1	09/11/2008 2:56
Pyrene	< 0.010	0.010	mg/L	1	09/11/2008 2:56
VOLATILES BY GC/MS METHOD 624					
		SW8260B	Prep:		Analyst: VJB
1,1,1-Trichloroethane	< 0.005	0.005	mg/L	1	08/22/2008 23:31
1,1,2,2-Tetrachloroethane	< 0.005	0.005	mg/L	1	08/22/2008 23:31
1,1,2-Trichloroethane	< 0.005	0.005	mg/L	1	08/22/2008 23:31
1,1-Dichloroethane	< 0.005	0.005	mg/L	1	08/22/2008 23:31
1,1-Dichloroethene	< 0.005	0.005	mg/L	1	08/22/2008 23:31
1,2-Dichloroethane	< 0.005	0.005	mg/L	1	08/22/2008 23:31
1,2-Dichloropropane	< 0.005	0.005	mg/L	1	08/22/2008 23:31
2-Chloroethyl vinyl ether	< 0.010	0.010	mg/L	1	08/22/2008 23:31
Acrolein	< 0.100	0.100	mg/L	1	08/22/2008 23:31
Acrylonitrile	< 0.100	0.100	mg/L	1	08/22/2008 23:31
Benzene	< 0.005	0.005	mg/L	1	08/22/2008 23:31
Bromodichloromethane	< 0.005	0.005	mg/L	1	08/22/2008 23:31
Bromoform	< 0.005	0.005	mg/L	1	08/22/2008 23:31
Bromomethane	< 0.010	0.010	mg/L	1	08/22/2008 23:31
Carbon tetrachloride	< 0.005	0.005	mg/L	1	08/22/2008 23:31
Chlorobenzene	< 0.005	0.005	mg/L	1	08/22/2008 23:31
Chloroethane	< 0.010	0.010	mg/L	1	08/22/2008 23:31
Chloroform	< 0.005	0.005	mg/L	1	08/22/2008 23:31
Chloromethane	< 0.005	0.005	mg/L	1	08/22/2008 23:31
cis-1,3-Dichloropropene	< 0.005	0.005	mg/L	1	08/22/2008 23:31
Dibromochloromethane	< 0.005	0.005	mg/L	1	08/22/2008 23:31
Ethylbenzene	< 0.005	0.005	mg/L	1	08/22/2008 23:31
Methylene chloride	< 0.005	0.005	mg/L	1	08/22/2008 23:31
Tetrachloroethene	< 0.005	0.005	mg/L	1	08/22/2008 23:31
Toluene	< 0.005	0.005	mg/L	1	08/22/2008 23:31
trans-1,2-Dichloroethene	< 0.005	0.005	mg/L	1	08/22/2008 23:31
trans-1,3-Dichloropropene	< 0.005	0.005	mg/L	1	08/22/2008 23:31
Trichloroethene	< 0.005	0.005	mg/L	1	08/22/2008 23:31
Vinyl chloride	< 0.002	0.002	mg/L	1	08/22/2008 23:31
ANIONS BY ION CHROMATOGRAPHY					
		E300	Prep:		Analyst: RWF
Nitrogen, Nitrate, as NO3-N	54.3	1.00	mg/L	10	08/28/2008 17:17
Nitrogen, Nitrite, as NO2-N	< 0.10	0.10	mg/L	1	08/22/2008 19:53
Total Nitrate-Nitrite, mg/L as N	54.3	1.00	mg/L	10	08/28/2008 17:17



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Date: 12-Sep-08

CLIENT: Demopolis Water Works & Sewer Board Client Sample ID: Effluent
Lab Order: 080822032
Project: EPA Form 2A - Effluent Collection Date: 8/22/2008 10:21:00 AM
Lab ID: 080822032-001 Matrix: Aqueous

Analyses	Result	Limit	Units	DF	Date Analyzed
CBOD, 5 DAY, 20°C Carbonaceous Biochemical Oxygen Demand	23.6**	M5210 B 4E6 1.0	Prep:(M5210 B) mg/L	08/22/2008 13:30 1	Analyst: JSM 08/22/2008 13:30
CHLORINE, TOTAL RESIDUAL Total Residual Chlorine	0.18	M4500-CL G 0.01	Prep: mg/L	1	Analyst: OPH 08/22/2008 10:21
CYANIDE, TOTAL Cyanide, Total	< 0.010	M4500-CN CE 0.010	Prep: mg/L	1	Analyst: JSM 08/27/2008 13:26
DISSOLVED OXYGEN Oxygen, Dissolved	6.7	M4500-O G 0.1	Prep: mg/L	1	Analyst: OPH 08/22/2008 10:21
AMMONIA AS N Nitrogen, Ammonia as N	1.08	M4500-NH3 BF 0.05	Prep: mg/L	1	Analyst: KIR 08/27/2008 9:45
OIL AND GREASE BY 1664 Oil and Grease	8.9	E1664 1.0	Prep: mg/L	1	Analyst: JSM 08/26/2008 8:42
PHOSPHORUS, TOTAL Phosphorus as P	2.17	M4500-P B5 0.05	Prep: mg/l	1	Analyst: LFW 08/27/2008 11:37
PH IN THE FIELD pH	7.36	M4500-HB 0	Prep: pH Units	1	Analyst: OPH 08/22/2008 10:21
PHENOLICS, TOTAL RECOVERABLE Phenolics, Total Recoverable	< 0.10	M510 AC 0.10	Prep: mg/L	1	Analyst: KIR 08/28/2008 9:00
TOTAL DISSOLVED SOLIDS Total Dissolved Solids	1070	M2540 C 20.0	Prep: mg/L	1	Analyst: LFW 08/25/2008 19:45
TOTAL KJELDAHL NITROGEN Nitrogen, Kjeldahl, Total as N	25.2	M4500-N B 0.05	Prep: mg/L	1	Analyst: KIR 08/27/2008 9:45
TOTAL SUSPENDED SOLIDS Total Suspended Solids	13**	USGS3765 1	Prep: mg/L	1	Analyst: LFW 08/25/2008 14:55



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Date: 12-Sep-08

CLIENT: Demopolis Water Works & Sewer Board **Client Sample ID:** Trip Blank
Lab Order: 080822032
Project: EPA Form 2A - Effluent **Collection Date:** 8/22/2008
Lab ID: 080822032-002 **Matrix:** Aqueous

Analyses	Result	Limit	Units	DF	Date Analyzed
VOLATILES BY GC/MS METHOD 624					
		SW8260B	Prep:		Analyst: VJB
1,1,1-Trichloroethane	< 0.005	0.005	mg/L	1	08/23/2008 0:08
1,1,2,2-Tetrachloroethane	< 0.005	0.005	mg/L	1	08/23/2008 0:08
1,1,2-Trichloroethane	< 0.005	0.005	mg/L	1	08/23/2008 0:08
1,1-Dichloroethane	< 0.005	0.005	mg/L	1	08/23/2008 0:08
1,1-Dichloroethene	< 0.005	0.005	mg/L	1	08/23/2008 0:08
1,2-Dichloroethane	< 0.005	0.005	mg/L	1	08/23/2008 0:08
1,2-Dichloropropane	< 0.005	0.005	mg/L	1	08/23/2008 0:08
2-Chloroethyl vinyl ether	< 0.010	0.010	mg/L	1	08/23/2008 0:08
Acrolein	< 0.100	0.100	mg/L	1	08/23/2008 0:08
Acrylonitrile	< 0.100	0.100	mg/L	1	08/23/2008 0:08
Benzene	< 0.005	0.005	mg/L	1	08/23/2008 0:08
Bromodichloromethane	< 0.005	0.005	mg/L	1	08/23/2008 0:08
Bromoform	< 0.005	0.005	mg/L	1	08/23/2008 0:08
Bromomethane	< 0.010	0.010	mg/L	1	08/23/2008 0:08
Carbon tetrachloride	< 0.005	0.005	mg/L	1	08/23/2008 0:08
Chlorobenzene	< 0.005	0.005	mg/L	1	08/23/2008 0:08
Chloroethane	< 0.010	0.010	mg/L	1	08/23/2008 0:08
Chloroform	< 0.005	0.005	mg/L	1	08/23/2008 0:08
Chloromethane	< 0.005	0.005	mg/L	1	08/23/2008 0:08
cis-1,3-Dichloropropene	< 0.005	0.005	mg/L	1	08/23/2008 0:08
Dibromochloromethane	< 0.005	0.005	mg/L	1	08/23/2008 0:08
Ethylbenzene	< 0.005	0.005	mg/L	1	08/23/2008 0:08
Methylene chloride	< 0.005	0.005	mg/L	1	08/23/2008 0:08
Tetrachloroethene	< 0.005	0.005	mg/L	1	08/23/2008 0:08
Toluene	< 0.005	0.005	mg/L	1	08/23/2008 0:08
trans-1,2-Dichloroethene	< 0.005	0.005	mg/L	1	08/23/2008 0:08
trans-1,3-Dichloropropene	< 0.005	0.005	mg/L	1	08/23/2008 0:08
Trichloroethene	< 0.005	0.005	mg/L	1	08/23/2008 0:08
Vinyl chloride	< 0.002	0.002	mg/L	1	08/23/2008 0:08



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November 18, 2008

Mr. Byron Cook
Demopolis Water Works & Sewer Board
2101 Water Avenue
Demopolis, AL 36732

RE: Effluent - EPA Form 2A
Work Order Number: **081024022**

Dear Client:

TTL, Inc. received sample(s) on Friday, October 24, 2008 for the analyses presented in the attached report.

If you should have any questions regarding these analyses, please feel free to call. The work order number shown above will assist us in accessing your data more efficiently.

Thank you for the opportunity to provide these services.

Sincerely,
TTL, Inc.

Steve Martin
Chemist

Attachments



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Date: 18-Nov-08

CLIENT: Demopolis Water Works & Sewer Board
Project: Effluent - EPA Form 2A
Lab Order: 081024022

CASE NARRATIVE

The samples were analyzed in general accordance with methods outlined in 40 CFR, Part 136.



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Date: 18-Nov-08

CLIENT: Demopolis Water Works & Sewer Board		Lab Order: 081024022			
Project: Effluent - EPA Form 2A					
Lab ID: 081024022-001		Collection Date: 10/24/2008 10:35			
Client Sample ID: Effluent		Matrix: Aqueous			
Analyses	Result	Limit	Units	DF	Date Analyzed
FECAL COLIFORM, MPN		A908C	Prep:		Analyst: SAS
Fecal Coliform	55	1	CFU/100ml	1	10/24/2008 13:45
TOTAL HARDNESS		M2340 B	Prep:(E200.7)	10/24/2008 16:16	Analyst: HTP
Hardness, Calcium/Magnesium (As CaCO ₃)	48.8	1.00	mg/L	1	10/29/2008 7:05
MERCURY, TOTAL RECOVERABLE		SW7470	Prep:(SW7470A)	10/28/2008 8:35	Analyst: GAH
Mercury, as Hg	< 0.0010	0.0010	mg/L	1	10/29/2008 7:51
ICP METALS, TOTAL RECOVERABLE		E200.7	Prep:(E4.1.1)	10/23/2008 15:40	Analyst: HTP
Antimony, as Sb	< 0.005	0.005	mg/L	1	10/30/2008 7:40
Arsenic, as As	< 0.010	0.010	mg/L	1	10/30/2008 7:40
Beryllium, as Be	< 0.001	0.001	mg/L	1	10/30/2008 7:40
Cadmium, as Cd	< 0.001	0.001	mg/L	1	10/30/2008 7:40
Chromium, as Cr	< 0.050	0.050	mg/L	1	10/30/2008 7:40
Copper, as Cu	< 0.050	0.050	mg/L	1	10/30/2008 7:40
Lead, as Pb	< 0.005	0.005	mg/L	1	10/30/2008 7:40
Nickel, as Ni	< 0.050	0.050	mg/L	1	10/30/2008 7:40
Silver, as Ag	< 0.050	0.050	mg/L	1	10/30/2008 7:40
Zinc, as Zn	< 0.050	0.050	mg/L	1	10/30/2008 7:40
SELENIUM IN WASTEWATER		E270.2	Prep:(E200.7)	10/24/2008 15:16	Analyst: GAH
Selenium	< 0.010	0.010	mg/L	1	10/28/2008 1:52
TL TOTAL RECOVERABLE BY GFAA		E200.9	Prep:(E4.1.1)	10/23/2008 15:40	Analyst: GAH
Thallium, as Tl	< 0.001	0.001	mg/L	1	10/28/2008 10:30
SEMIVOLATILE ORGANICS BY 825		E625	Prep:(E625)	10/29/2008 15:08	Analyst: VJB
1,2,4-Trichlorobenzene	< 0.010	0.010	mg/L	1	11/04/2008 15:11
1,2-Dichlorobenzene	< 0.010	0.010	mg/L	1	11/04/2008 15:11
1,2-Diphenylhydrazine	< 0.050	0.050	mg/L	1	11/04/2008 15:11
1,3-Dichlorobenzene	< 0.010	0.010	mg/L	1	11/04/2008 15:11
1,4-Dichlorobenzene	< 0.010	0.010	mg/L	1	11/04/2008 15:11
2,4,6-Trichlorophenol	< 0.010	0.010	mg/L	1	11/04/2008 15:11
2,4-Dichlorophenol	< 0.010	0.010	mg/L	1	11/04/2008 15:11
2,4-Dimethylphenol	< 0.010	0.010	mg/L	1	11/04/2008 15:11
2,4-Dinitrophenol	< 0.050	0.050	mg/L	1	11/04/2008 15:11
2,4-Dinitrotoluene	< 0.010	0.010	mg/L	1	11/04/2008 15:11
2,6-Dinitrotoluene	< 0.010	0.010	mg/L	1	11/04/2008 15:11
2-Chloronaphthalene	< 0.010	0.010	mg/L	1	11/04/2008 15:11
2-Chlorophenol	< 0.010	0.010	mg/L	1	11/04/2008 15:11
2-Nitrophenol	< 0.010	0.010	mg/L	1	11/04/2008 15:11



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Date: 18-Nov-08

CLIENT: Demopolis Water Works & Sewer Board Lab Order: 081024022
Project: Effluent - EPA Form 2A

SEMIVOLATILE ORGANICS BY 625		E625	Prep:(E625)	10/29/2008 15:08	Analyst: VJB
3,3'-Dichlorobenzidine	< 0.020	0.020	mg/L	1	11/04/2008 15:11
4,6-Dinitro-2-methylphenol	< 0.050	0.050	mg/L	1	11/04/2008 15:11
4-Bromophenyl phenyl ether	< 0.010	0.010	mg/L	1	11/04/2008 15:11
4-Chloro-3-methylphenol	< 0.010	0.010	mg/L	1	11/04/2008 15:11
4-Chlorophenyl phenyl ether	< 0.010	0.010	mg/L	1	11/04/2008 15:11
4-Nitrophenol	< 0.050	0.050	mg/L	1	11/04/2008 15:11
Acenaphthene	< 0.010	0.010	mg/L	1	11/04/2008 15:11
Acenaphthylene	< 0.010	0.010	mg/L	1	11/04/2008 15:11
Anthracene	< 0.010	0.010	mg/L	1	11/04/2008 15:11
Benz(a)anthracene	< 0.010	0.010	mg/L	1	11/04/2008 15:11
Benzidine	< 0.050	0.050	mg/L	1	11/04/2008 15:11
Benzo(a)pyrene	< 0.010	0.010	mg/L	1	11/04/2008 15:11
Benzo(b)fluoranthene	< 0.010	0.010	mg/L	1	11/04/2008 15:11
Benzo(g,h,i)perylene	< 0.010	0.010	mg/L	1	11/04/2008 15:11
Benzo(k)fluoranthene	< 0.010	0.010	mg/L	1	11/04/2008 15:11
Bis(2-chloroethoxy)methane	< 0.010	0.010	mg/L	1	11/04/2008 15:11
Bis(2-chloroethyl)ether	< 0.010	0.010	mg/L	1	11/04/2008 15:11
Bis(2-chloroisopropyl)ether	< 0.010	0.010	mg/L	1	11/04/2008 15:11
Bis(2-ethylhexyl)phthalate	< 0.010	0.010	mg/L	1	11/04/2008 15:11
Butyl benzyl phthalate	< 0.010	0.010	mg/L	1	11/04/2008 15:11
Chrysene	< 0.010	0.010	mg/L	1	11/04/2008 15:11
Dibenz(a,h)anthracene	< 0.010	0.010	mg/L	1	11/04/2008 15:11
Diethyl phthalate	< 0.010	0.010	mg/L	1	11/04/2008 15:11
Dimethyl phthalate	< 0.010	0.010	mg/L	1	11/04/2008 15:11
Di-n-butyl phthalate	< 0.010	0.010	mg/L	1	11/04/2008 15:11
Di-n-octyl phthalate	< 0.010	0.010	mg/L	1	11/04/2008 15:11
Fluoranthene	< 0.010	0.010	mg/L	1	11/04/2008 15:11
Fluorene	< 0.010	0.010	mg/L	1	11/04/2008 15:11
Hexachlorobenzene	< 0.010	0.010	mg/L	1	11/04/2008 15:11
Hexachlorobutadiene	< 0.010	0.010	mg/L	1	11/04/2008 15:11
Hexachlorocyclopentadiene	< 0.010	0.010	mg/L	1	11/04/2008 15:11
Hexachloroethane	< 0.010	0.010	mg/L	1	11/04/2008 15:11
Indeno(1,2,3-cd)pyrene	< 0.010	0.010	mg/L	1	11/04/2008 15:11
Isophorone	< 0.010	0.010	mg/L	1	11/04/2008 15:11
Naphthalene	< 0.010	0.010	mg/L	1	11/04/2008 15:11
Nitrobenzene	< 0.010	0.010	mg/L	1	11/04/2008 15:11
N-Nitrosodimethylamine	< 0.010	0.010	mg/L	1	11/04/2008 15:11
N-Nitrosodi-n-propylamine	< 0.010	0.010	mg/L	1	11/04/2008 15:11
N-Nitrosodiphenylamine	< 0.010	0.010	mg/L	1	11/04/2008 15:11
Pentachlorophenol	< 0.025	0.025	mg/L	1	11/04/2008 15:11
Phenanthrene	< 0.010	0.010	mg/L	1	11/04/2008 15:11
Phenol	< 0.010	0.010	mg/L	1	11/04/2008 15:11
Pyrene	< 0.010	0.010	mg/L	1	11/04/2008 15:11



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Date: 18-Nov-08

CLIENT: Demopolis Water Works & Sewer Board Lab Order: 081024022
Project: Effluent - EPA Form 2A

VOLATILES BY GC/MS METHOD 624

SW8260B

Prep:

Analyst: VJB

1,1,1-Trichloroethane	< 0.005	0.005	mg/L	1	10/28/2008 1:24
1,1,2,2-Tetrachloroethane	< 0.005	0.005	mg/L	1	10/28/2008 1:24
1,1,2-Trichloroethane	< 0.005	0.005	mg/L	1	10/28/2008 1:24
1,1-Dichloroethane	< 0.005	0.005	mg/L	1	10/28/2008 1:24
1,1-Dichloroethene	< 0.005	0.005	mg/L	1	10/28/2008 1:24
1,2-Dichloroethane	< 0.005	0.005	mg/L	1	10/28/2008 1:24
1,2-Dichloropropane	< 0.005	0.005	mg/L	1	10/28/2008 1:24
2-Chloroethyl vinyl ether	< 0.010	0.010	mg/L	1	10/28/2008 1:24
Acrolein	< 0.100	0.100	mg/L	1	10/28/2008 1:24
Acrylonitrile	< 0.100	0.100	mg/L	1	10/28/2008 1:24
Benzene	< 0.005	0.005	mg/L	1	10/28/2008 1:24
Bromodichloromethane	< 0.005	0.005	mg/L	1	10/28/2008 1:24
Bromoform	< 0.005	0.005	mg/L	1	10/28/2008 1:24
Bromomethane	< 0.010	0.010	mg/L	1	10/28/2008 1:24
Carbon tetrachloride	< 0.005	0.005	mg/L	1	10/28/2008 1:24
Chlorobenzene	< 0.005	0.005	mg/L	1	10/28/2008 1:24
Chloroethane	< 0.010	0.010	mg/L	1	10/28/2008 1:24
Chloroform	< 0.005	0.005	mg/L	1	10/28/2008 1:24
Chloromethane	< 0.005	0.005	mg/L	1	10/28/2008 1:24
cis-1,3-Dichloropropene	< 0.005	0.005	mg/L	1	10/28/2008 1:24
Dibromochloromethane	< 0.005	0.005	mg/L	1	10/28/2008 1:24
Ethylbenzene	< 0.005	0.005	mg/L	1	10/28/2008 1:24
Methylene chloride	< 0.005	0.005	mg/L	1	10/28/2008 1:24
Tetrachloroethane	< 0.005	0.005	mg/L	1	10/28/2008 1:24
Toluene	< 0.005	0.005	mg/L	1	10/28/2008 1:24
trans-1,2-Dichloroethene	< 0.005	0.005	mg/L	1	10/28/2008 1:24
trans-1,3-Dichloropropene	< 0.005	0.005	mg/L	1	10/28/2008 1:24
Trichloroethane	< 0.005	0.005	mg/L	1	10/28/2008 1:24
Vinyl chloride	< 0.002	0.002	mg/L	1	10/28/2008 1:24

ANIONS BY ION CHROMATOGRAPHY

E300

Prep:

Analyst: RWF

Nitrogen, Nitrate, as NO ₃ -N	34.3	1.00	mg/L	10	10/27/2008 17:09
Nitrogen, Nitrite, as NO ₂ -N	< 0.10	0.10	mg/L	1	10/24/2008 16:33
Total Nitrate-Nitrite, mg/L as N	34.3	1.00	mg/L	10	10/27/2008 17:09

CBOD, 5 DAY, 20°C

M5210 B 4E6

Prep:(M5210 B)

10/24/2008 13:25

Analyst: CPP

Carbonaceous Biochemical Oxygen Demand	1.6	1.0	mg/L	1	10/24/2008 13:25
--	-----	-----	------	---	------------------

CHLORINE, TOTAL RESIDUAL

M4500-CL G

Prep:

Analyst: OPH

Total Residual Chlorine	0.01	0.01	mg/L	1	10/24/2008 10:35
-------------------------	------	------	------	---	------------------

CYANIDE, TOTAL

M4500-CN CE

Prep:

Analyst: JSM

Cyanide, Total	< 0.010	0.010	mg/L	1	10/30/2008 10:41
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DISSOLVED OXYGEN

M4500-O G

Prep:

Analyst: OPH



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Date: 18-Nov-08

CLIENT:	Demopolis Water Works & Sewer Board				Lab Order:	081024022
Project:	Effluent - EPA Form 2A					
DISSOLVED OXYGEN		M4500-O G	Prep:		Analyst:	OPH
Oxygen, Dissolved	8.0	0.1	mg/L	1		10/24/2008 10:35
AMMONIA AS N		M4500-NH3 BF	Prep:		Analyst:	KIR
Nitrogen, Ammonia as N	0.78	0.05	mg/L	1		10/27/2008 9:25
OIL AND GREASE BY 1664		E1664	Prep:		Analyst:	JSM
Oil and Grease	1.2	1.0	mg/L	1		10/30/2008 8:46
PHOSPHORUS, TOTAL		M4500-P B5	Prep:		Analyst:	LFW
Phosphorus as P	2.63	0.05	mg/l	1		10/29/2008 16:17
PH IN THE FIELD		M4500-HB	Prep:		Analyst:	OPH
pH	7.38	0	pH Units	1		10/24/2008 10:35
PHENOLICS, TOTAL RECOVERABLE		M510 AC	Prep:		Analyst:	KIR
Phenolics, Total Recoverable	< 0.10	0.10	mg/L	1		10/17/2008 10:10
TOTAL DISSOLVED SOLIDS		M2540 C	Prep:		Analyst:	LFW
Total Dissolved Solids	1160	20.0	mg/L	1		10/30/2008 10:45
TOTAL KJELDAHL NITROGEN		M4500-N B	Prep:		Analyst:	KIR
Nitrogen, Kjeldahl, Total as N	8.91	0.05	mg/L	1		10/27/2008 9:25
TOTAL SUSPENDED SOLIDS		USGS3765	Prep:		Analyst:	LFW
Total Suspended Solids	5	1	mg/L	1		10/27/2008 9:45



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Date: 18-Nov-08

CLIENT: Demopolis Water Works & Sewer Board Lab Order: 081024022
Project: Effluent - EPA Form 2A

Lab ID: 081024022-002 Collection Date: 10/24/2008 0:00
Client Sample ID: Trip Blank Matrix: Aqueous

Analyses	Result	Limit	Units	DF	Date Analyzed
VOLATILES BY GC/MS METHOD 624		SW8260B	Prep:		Analyst: VJB
1,1,1-Trichloroethane	< 0.005	0.005	mg/L	1	10/28/2008 2:01
1,1,2,2-Tetrachloroethane	< 0.005	0.005	mg/L	1	10/28/2008 2:01
1,1,2-Trichloroethane	< 0.005	0.005	mg/L	1	10/28/2008 2:01
1,1-Dichloroethane	< 0.005	0.005	mg/L	1	10/28/2008 2:01
1,1-Dichloroethene	< 0.005	0.005	mg/L	1	10/28/2008 2:01
1,2-Dichloroethane	< 0.005	0.005	mg/L	1	10/28/2008 2:01
1,2-Dichloropropane	< 0.005	0.005	mg/L	1	10/28/2008 2:01
2-Chloroethyl vinyl ether	< 0.010	0.010	mg/L	1	10/28/2008 2:01
Acrolein	< 0.100	0.100	mg/L	1	10/28/2008 2:01
Acrylonitrile	< 0.100	0.100	mg/L	1	10/28/2008 2:01
Benzene	< 0.005	0.005	mg/L	1	10/28/2008 2:01
Bromodichloromethane	< 0.005	0.005	mg/L	1	10/28/2008 2:01
Bromoforn	< 0.005	0.005	mg/L	1	10/28/2008 2:01
Bromomethane	< 0.010	0.010	mg/L	1	10/28/2008 2:01
Carbon tetrachloride	< 0.005	0.005	mg/L	1	10/28/2008 2:01
Chlorobenzene	< 0.005	0.005	mg/L	1	10/28/2008 2:01
Chloroethane	< 0.010	0.010	mg/L	1	10/28/2008 2:01
Chloroform	< 0.005	0.005	mg/L	1	10/28/2008 2:01
Chloromethane	< 0.005	0.005	mg/L	1	10/28/2008 2:01
cis-1,3-Dichloropropene	< 0.005	0.005	mg/L	1	10/28/2008 2:01
Dibromochloromethane	< 0.005	0.005	mg/L	1	10/28/2008 2:01
Ethylbenzene	< 0.005	0.005	mg/L	1	10/28/2008 2:01
Methylene chloride	< 0.005	0.005	mg/L	1	10/28/2008 2:01
Tetrachloroethene	< 0.005	0.005	mg/L	1	10/28/2008 2:01
Toluene	< 0.005	0.005	mg/L	1	10/28/2008 2:01
trans-1,2-Dichloroethene	< 0.005	0.005	mg/L	1	10/28/2008 2:01
trans-1,3-Dichloropropene	< 0.005	0.005	mg/L	1	10/28/2008 2:01
Trichloroethene	< 0.005	0.005	mg/L	1	10/28/2008 2:01
Vinyl chloride	< 0.002	0.002	mg/L	1	10/28/2008 2:01

FACILITY NAME AND PERMIT NUMBER:

Demopolis WWTP; AL0043168

Form Approved 1/14/99
OMB Number 2040-0086

SUPPLEMENTAL APPLICATION INFORMATION

PART E. TOXICITY TESTING DATA

POTWs meeting one or more of the following criteria must provide the results of whole effluent toxicity tests for acute or chronic toxicity for each of the facility's discharge points: 1) POTWs with a design flow rate greater than or equal to 1.0 mgd; 2) POTWs with a pretreatment program (or those that are required to have one under 40 CFR Part 403); or 3) POTWs required by the permitting authority to submit data for these parameters.

- At a minimum, these results must include quarterly testing for a 12-month period within the past 1 year using multiple species (minimum of two species), or the results from four tests performed at least annually in the four and one-half years prior to the application, provided the results show no appreciable toxicity, and testing for acute and/or chronic toxicity, depending on the range of receiving water dilution. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136.
- In addition, submit the results of any other whole effluent toxicity tests from the past four and one-half years. If a whole effluent toxicity test conducted during the past four and one-half years revealed toxicity, provide any information on the cause of the toxicity or any results of a toxicity reduction evaluation, if one was conducted.
- If you have already submitted any of the information requested in Part E, you need not submit it again. Rather, provide the information requested in question E.4 for previously submitted information. If EPA methods were not used, report the reasons for using alternate methods. If test summaries are available that contain all of the information requested below, they may be submitted in place of Part E.

If no biomonitoring data is required, do not complete Part E. Refer to the Application Overview for directions on which other sections of the form to complete.

E.1. Required Tests.

Indicate the number of whole effluent toxicity tests conducted in the past four and one-half years.

____ chronic X acute

E.2. Individual Test Data. Complete the following chart for each whole effluent toxicity test conducted in the last four and one-half years. Allow one column per test (where each species constitutes a test). Copy this page if more than three tests are being reported.

Test number: _____ Test number: _____ Test number: _____

a. Test information.

Test species & test method number			
Age at initiation of test			
Outfall number			
Dates sample collected			
Date test started			
Duration			

b. Give toxicity test methods followed.

Manual title			
Edition number and year of publication			
Page number(s)			

c. Give the sample collection method(s) used. For multiple grab samples, indicate the number of grab samples used.

24-Hour composite			
Grab			

d. Indicate where the sample was taken in relation to disinfection. (Check all that apply for each)

Before disinfection			
After disinfection			
After dechlorination			

FACILITY NAME AND PERMIT NUMBER:

Demopolis WWTP; AL0043168

Form Approved 1/14/99
OMB Number 2040-0086

Test number: _____

Test number: _____

Test number: _____

e. Describe the point in the treatment process at which the sample was collected.

Sample was collected:

f. For each test, include whether the test was intended to assess chronic toxicity, acute toxicity, or both.

Chronic toxicity

Acute toxicity

g. Provide the type of test performed.

Static

Static-renewal

Flow-through

h. Source of dilution water. If laboratory water, specify type; if receiving water, specify source.

Laboratory water

Receiving water

i. Type of dilution water. If salt water, specify "natural" or type of artificial sea salts or brine used.

Fresh water

Salt water

j. Give the percentage effluent used for all concentrations in the test series.

k. Parameters measured during the test. (State whether parameter meets test method specifications)

pH

Salinity

Temperature

Ammonia

Dissolved oxygen

l. Test Results.

Acute:

Percent survival in 100%
effluent

%

%

%

LC₅₀

95% C.I.

%

%

%

Control percent survival

%

%

%

Other (describe)

FACILITY NAME AND PERMIT NUMBER:
Demopolis WWTP; AL0043168

Form Approved 1/14/99
OMB Number 2040-0086

Chronic:

NOEC	%	%	%
IC ₂₅	%	%	%
Control percent survival	%	%	%
Other (describe)			

m. Quality Control/Quality Assurance.

Is reference toxicant data available?			
Was reference toxicant test within acceptable bounds?			
What date was reference toxicant test run (MM/DD/YYYY)?			
Other (describe)			

E.3. Toxicity Reduction Evaluation. Is the treatment works involved in a Toxicity Reduction Evaluation?

___ Yes ___ No

If yes, describe:

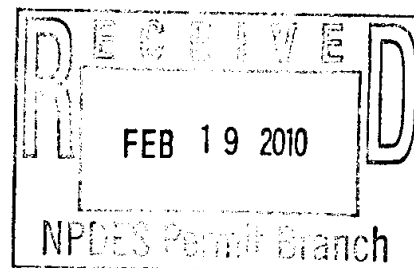
E.4. Summary of Submitted Biomonitoring Test Information. If you have submitted biomonitoring test information, or information regarding the cause of toxicity, within the past four and one-half years, provide the dates the information was submitted to the permitting authority and a summary of the results.

Date submitted: 8/13/09 (MM/DD/YYYY)

Summary of results: (see Instructions)

Toxicity information regularly submitted with DMR's

END OF PART E.
REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE.



FACILITY NAME AND PERMIT NUMBER:

Demopolis WWTP; AL0043168

Form Approved 1/14/99
OMB Number 2040-0086

SUPPLEMENTAL APPLICATION INFORMATION

PART F. INDUSTRIAL USER DISCHARGES AND RCRA/CERCLA WASTES

All treatment works receiving discharges from significant industrial users or which receive RCRA, CERCLA, or other remedial wastes must complete Part F.

GENERAL INFORMATION:

F.1. Pretreatment Program. Does the treatment works have, or is it subject to, an approved pretreatment program?

☒ Yes ☐ No

F.2. Number of Significant Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following types of industrial users that discharge to the treatment works.

a. Number of non-categorical SIUs. 4b. Number of CIUs.

SIGNIFICANT INDUSTRIAL USER INFORMATION:

Supply the following information for each SIU. If more than one SIU discharges to the treatment works, copy questions F.3 through F.8 and provide the information requested for each SIU.

F.3. Significant Industrial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary.

Name: Foster FarmsMailing Address: 232 North Industrial Park
Demopolis, AL 36732

F.4. Industrial Processes. Describe all of the industrial processes that affect or contribute to the SIU's discharge.

Corndog Manufacture

F.5. Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.

Principal product(s): CorndogsRaw material(s): Hot Dogs, Corn Meal

F.6. Flow Rate.

a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.

142,200 gpd (☐ continuous or ☒ intermittent)

b. Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.

Unknown gpd (☐ continuous or ☐ intermittent)

F.7. Pretreatment Standards. Indicate whether the SIU is subject to the following:

a. Local limits ☒ Yes ☐ Nob. Categorical pretreatment standards ☒ Yes ☐ No

If subject to categorical pretreatment standards, which category and subcategory?

Meat Packing Plant

FACILITY NAME AND PERMIT NUMBER:

Demopolis WWTP; AL0043168

Form Approved 1/14/99
OMB Number 2040-0086

SUPPLEMENTAL APPLICATION INFORMATION

PART F. INDUSTRIAL USER DISCHARGES AND RCRA/CERCLA WASTES

All treatment works receiving discharges from significant industrial users or which receive RCRA, CERCLA, or other remedial wastes must complete Part F.

GENERAL INFORMATION:

F.1. Pretreatment Program. Does the treatment works have, or is it subject to, an approved pretreatment program?

☐ Yes ☐ No

F.2. Number of Significant Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following types of industrial users that discharge to the treatment works.

a. Number of non-categorical SIUs. _____

b. Number of CIUs. _____

SIGNIFICANT INDUSTRIAL USER INFORMATION:

Supply the following information for each SIU. If more than one SIU discharges to the treatment works, copy questions F.3 through F.8 and provide the information requested for each SIU.

F.3. Significant Industrial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary.

Name: Hexion Specialty Chemicals, Inc.Mailing Address: 1700 Lock and Dam Road
Demopolis, AL 36732

F.4. Industrial Processes. Describe all of the industrial processes that affect or contribute to the SIU's discharge.

Formaldehyde and thermoset resins and resins catalysts.

F.5. Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.

Principal product(s): Industrial GluesRaw material(s): Formaldehyde and urea

F.6. Flow Rate.

a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.

80,800 gpd (☐ continuous or ☒ intermittent)

b. Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.

Unknown gpd (☐ continuous or ☐ intermittent)

F.7. Pretreatment Standards. Indicate whether the SIU is subject to the following:

a. Local limits ☒ Yes ☐ Nob. Categorical pretreatment standards ☒ Yes ☐ No

If subject to categorical pretreatment standards, which category and subcategory?

Plastics materials, synthetic resins and nonvulcanizable elastomers

FACILITY NAME AND PERMIT NUMBER:

Demopolis WWTP; AL0043168

Form Approved 1/14/99
OMB Number 2040-0086

SUPPLEMENTAL APPLICATION INFORMATION

PART F. INDUSTRIAL USER DISCHARGES AND RCRA/CERCLA WASTES

All treatment works receiving discharges from significant industrial users or which receive RCRA, CERCLA, or other remedial wastes must complete Part F.

GENERAL INFORMATION:

F.1. Pretreatment Program. Does the treatment works have, or is it subject to, an approved pretreatment program?

☐ Yes ☐ No

F.2. Number of Significant Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following types of industrial users that discharge to the treatment works.

- a. Number of non-categorical SIUs. _____
- b. Number of CIUs. _____

SIGNIFICANT INDUSTRIAL USER INFORMATION:

Supply the following information for each SIU. If more than one SIU discharges to the treatment works, copy questions F.3 through F.8 and provide the information requested for each SIU.

F.3. Significant Industrial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary.

Name: Suttles Truck Leasing, Inc.Mailing Address: 2460 Highway 43 South
Demopolis, AL 36732

F.4. Industrial Processes. Describe all of the industrial processes that affect or contribute to the SIU's discharge.

Tanker Truck Washing

F.5. Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.

Principal product(s): UnknownRaw material(s): Unknown

F.6. Flow Rate.

- a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.

17,700 gpd (☐ continuous or ☒ intermittent)

- b. Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.

Unknown gpd (☐ continuous or ☐ intermittent)

F.7. Pretreatment Standards. Indicate whether the SIU is subject to the following:

- a. Local limits ☒ Yes ☐ No
- b. Categorical pretreatment standards ☒ Yes ☐ No

If subject to categorical pretreatment standards, which category and subcategory?

Local trucking without storage

FACILITY NAME AND PERMIT NUMBER:

Demopolis WWTP; AL0043168

Form Approved 1/14/99
OMB Number 2040-0086

SUPPLEMENTAL APPLICATION INFORMATION

PART F. INDUSTRIAL USER DISCHARGES AND RCRA/CERCLA WASTES

All treatment works receiving discharges from significant industrial users or which receive RCRA, CERCLA, or other remedial wastes must complete Part F.

GENERAL INFORMATION:

F.1. Pretreatment Program. Does the treatment works have, or is it subject to, an approved pretreatment program?

☐ Yes ☐ No

F.2. Number of Significant Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following types of industrial users that discharge to the treatment works.

a. Number of non-categorical SIUs. _____

b. Number of CIUs. _____

SIGNIFICANT INDUSTRIAL USER INFORMATION:

Supply the following information for each SIU. If more than one SIU discharges to the treatment works, copy questions F.3 through F.8 and provide the information requested for each SIU.

F.3. Significant Industrial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary.

Name: Perry County Associates Landfill

Mailing Address: Route 2, Box 110-A
Uniontown, AL 36786

F.4. Industrial Processes. Describe all of the industrial processes that affect or contribute to the SIU's discharge.

Municipal Solid Waste Landfill Leachate

F.5. Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.

Principal product(s): Landfill Leachate

Raw material(s): Municipal Solid Waste

F.6. Flow Rate.

a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.

12,800.00 gpd (☐ continuous or ☒ intermittent)

b. Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.

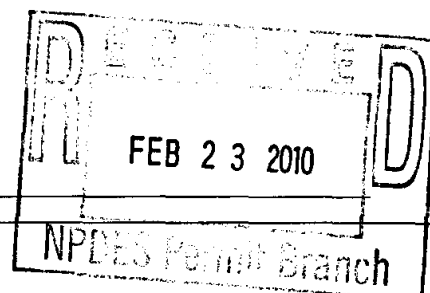
_____ gpd (☐ continuous or ☐ intermittent)

F.7. Pretreatment Standards. Indicate whether the SIU is subject to the following:

a. Local limits ☒ Yes ☐ No

b. Categorical pretreatment standards ☐ Yes ☒ No

If subject to categorical pretreatment standards, which category and subcategory?



FACILITY NAME AND PERMIT NUMBER:

Demopolis WWTP; AL0043168

Form Approved 1/14/99
OMB Number 2040-0086

F.8. Problems at the Treatment Works Attributed to Waste Discharged by the SIU. Has the SIU caused or contributed to any problems (e.g., upsets, interference) at the treatment works in the past three years?

☒ Yes ☐ No If yes, describe each episode.

High ammonia levels have increased power costs and intermittent permit excursions

RCRA HAZARDOUS WASTE RECEIVED BY TRUCK, RAIL, OR DEDICATED PIPELINE:

F.9. RCRA Waste. Does the treatment works receive or has it in the past three years received RCRA hazardous waste by truck, rail, or dedicated pipe?
☐ Yes ☒ No (go to F.12.)

F.10. Waste Transport. Method by which RCRA waste is received (check all that apply):

☐ Truck ☐ Rail ☐ Dedicated Pipe

F.11. Waste Description. Give EPA hazardous waste number and amount (volume or mass, specify units).

EPA Hazardous Waste Number	Amount	Units

CERCLA (SUPERFUND) WASTEWATER, RCRA REMEDIATION/CORRECTIVE ACTION WASTEWATER, AND OTHER REMEDIAL ACTIVITY WASTEWATER:

F.12. Remediation Waste. Does the treatment works currently (or has it been notified that it will) receive waste from remedial activities?

☐ Yes (complete F.13 through F.15.) ☒ No

Provide a list of sites and the requested information (F.13 - F.15.) for each current and future site.

F.13. Waste Origin. Describe the site and type of facility at which the CERCLA/RCRA or other remedial waste originates (or is expected to originate in the next five years).

F.14. Pollutants. List the hazardous constituents that are received (or are expected to be received). Include data on volume and concentration, if known. (Attach additional sheets if necessary).

F.15. Waste Treatment.

a. Is this waste treated (or will it be treated) prior to entering the treatment works?

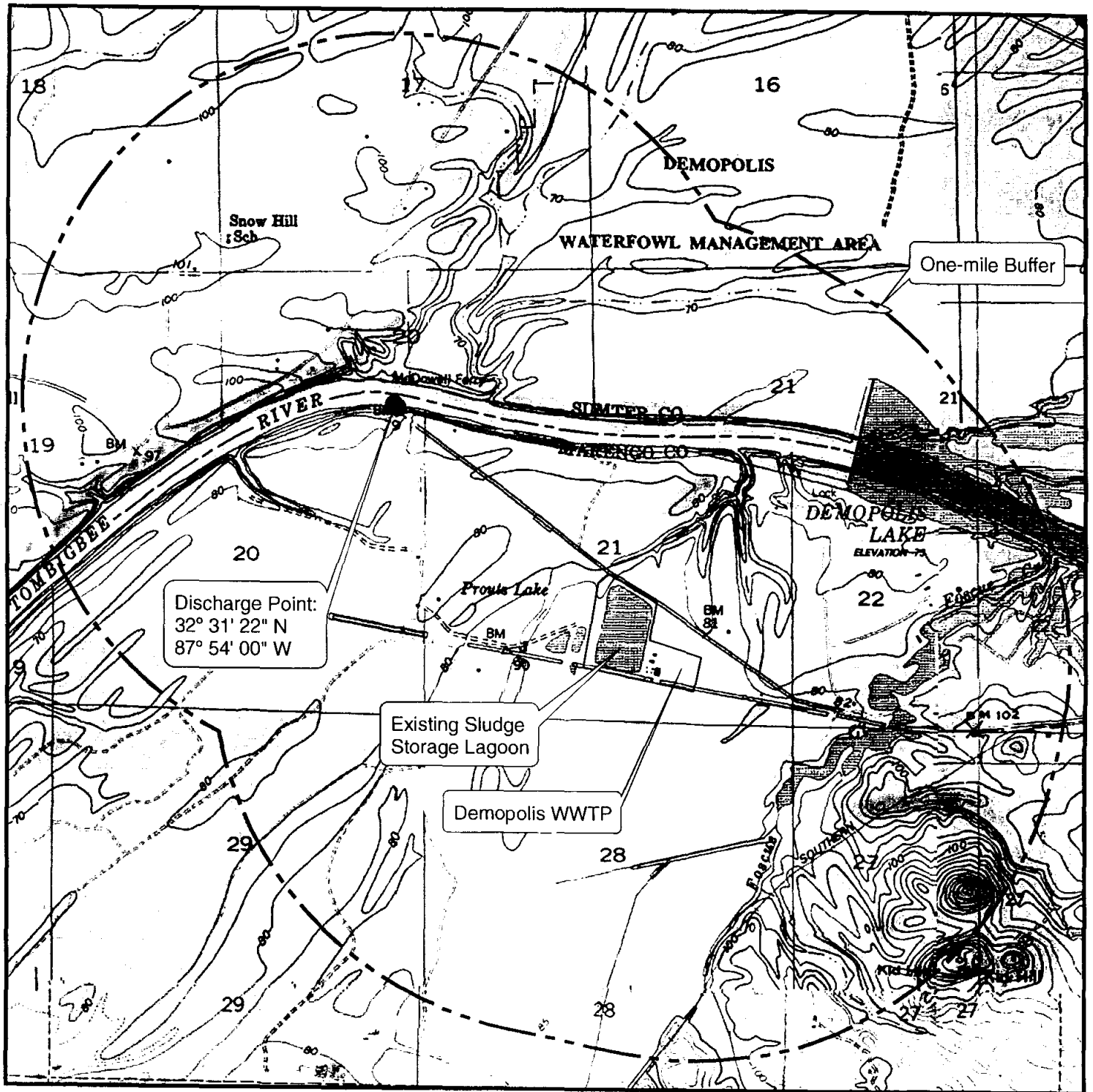
☐ Yes ☐ No

If yes, describe the treatment (provide information about the removal efficiency):

b. Is the discharge (or will the discharge be) continuous or intermittent?

☐ Continuous ☐ Intermittent If intermittent, describe discharge schedule.

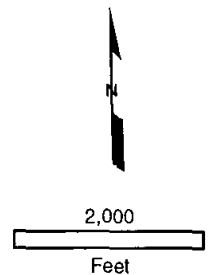
END OF PART F.
REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE

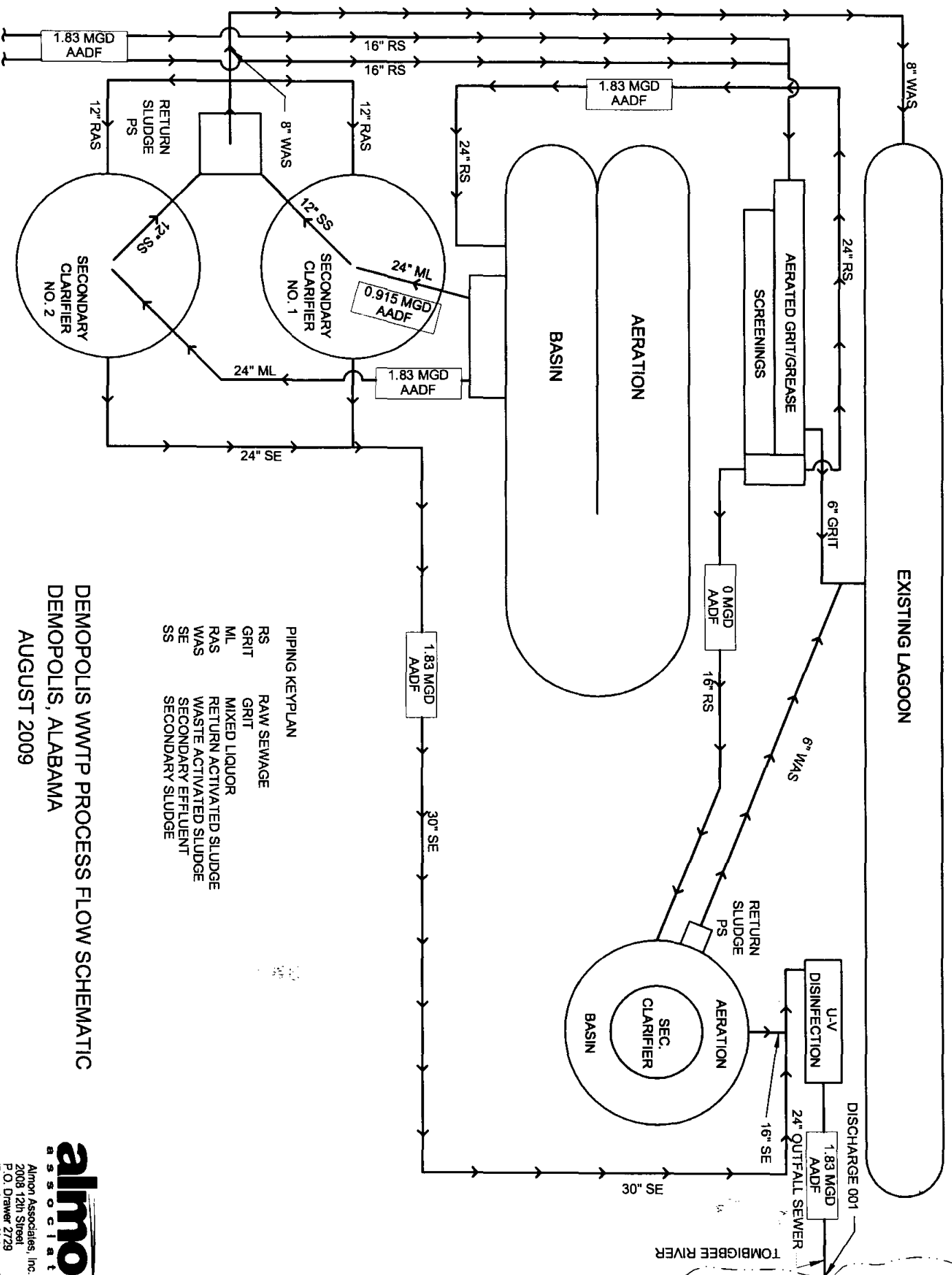


Topographical Map - One-mile Site and Discharge Point Buffer

Demopolis 2009 Wastewater Treatment Plant Permit Renewal
 Demopolis, Alabama
 NPDES Permit AL0043168
 August 2009

almon
 associates





DEMOPOLIS WWTTP PROCESS FLOW SCHEMATIC DEMOPOLIS, ALABAMA AUGUST 2009

Rogers, D Wayne

From: Phillip Guin [pguin@almonassociates.com]
Sent: Friday, January 29, 2010 11:57 AM
To: Rogers, D Wayne
Cc: Byron Cook
Subject: Demopolis WWTP Permit Renewal
Attachments: WWTP Storm Water Discharge Locations.jpg

Wayne,

Attached is a Google map showing the 2 storm sewer discharge locations. The latitude and longitude for these 2 locations is as follows:

STM 001	32 degrees, 30 minutes, 48.4 seconds North	87 degrees, 53 minutes, 17.1 seconds West
STM 002	32 degrees, 30 minutes, 46.9 seconds North	87 degrees, 53 minutes, 14.4 seconds West

The remainder of this site surface drains by sheet flow.

I am working on completing the remainder of Form 2-F and will forward to you as quickly as possible. If you have any questions or need additional information, please give me a call.

Thanks!

Phillip R. Guin, P.E.
Almon Associates, Inc.
2008 12th Street
Tuscaloosa, AL 35403
(205) 349-2100
(205) 349-2107 Fax
(205) 799-3421 Cell
pguin@almonassociates.com

REQUIRED INFORMATION FOR MIXING ZONE MODELING

GENERAL INFORMATION

1. Applicant Name:	<u>Demopolis Water Works and Sewer Board</u>
2. Permit No.:	<u>NPDES AL0043168</u>
3. Project Name (if different from applicant):	<u></u>
4. Contact name and phone number:	<u>Byron Cook (334) 289-3328</u>
5. Date submitted:	<u>01/18/2010</u>
5. Facility type (new, existing or upgrade):	<u>Existing</u>

AMBIENT CONDITIONS

1. Receiving waterbody:	<u>Tombigbee River</u>
2. Width of waterbody at discharge point (m):	<u>Approximately 122 m</u>
3. Depth of waterbody at discharge point (m):	<u>7.62 m</u>
4. Average depth of waterbody at discharge point (m):	<u>6.59 m</u>

DISCHARGE TYPE:

Submerged endpipe or submerged multiport diffuser? Multiport Diffuser

Effluent Density (kg/m³): 997 kg/m³ at 25°C (assumed)

Note: Fill out box A below for endpipe discharges; box B for diffuser discharges.

A. DISCHARGE CONDITIONS FOR SUBMERGED ENDPIPE DISCHARGES

N/A

1. Nearest bank (right or left) to the outfall looking downstream:	<u></u>
2. Distance from nearest bank to discharge (m):	<u></u>
3. Endpipe diameter (m):	<u></u>
4. Contraction ratio (if known):	<u></u>
5. Height of discharge above stream bottom (m):	<u></u>
6. Effluent flow rate (mgd):	<u></u>

B. DISCHARGE CONDITIONS FOR SUBMERGED MULTIPORT DIFFUSERS

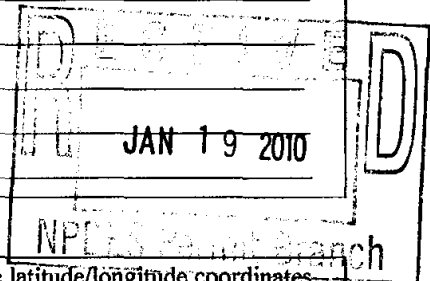
NOTE:

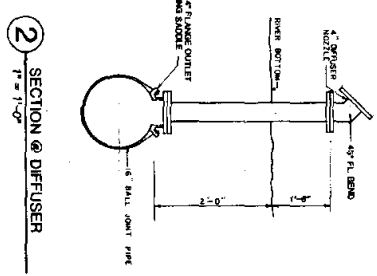
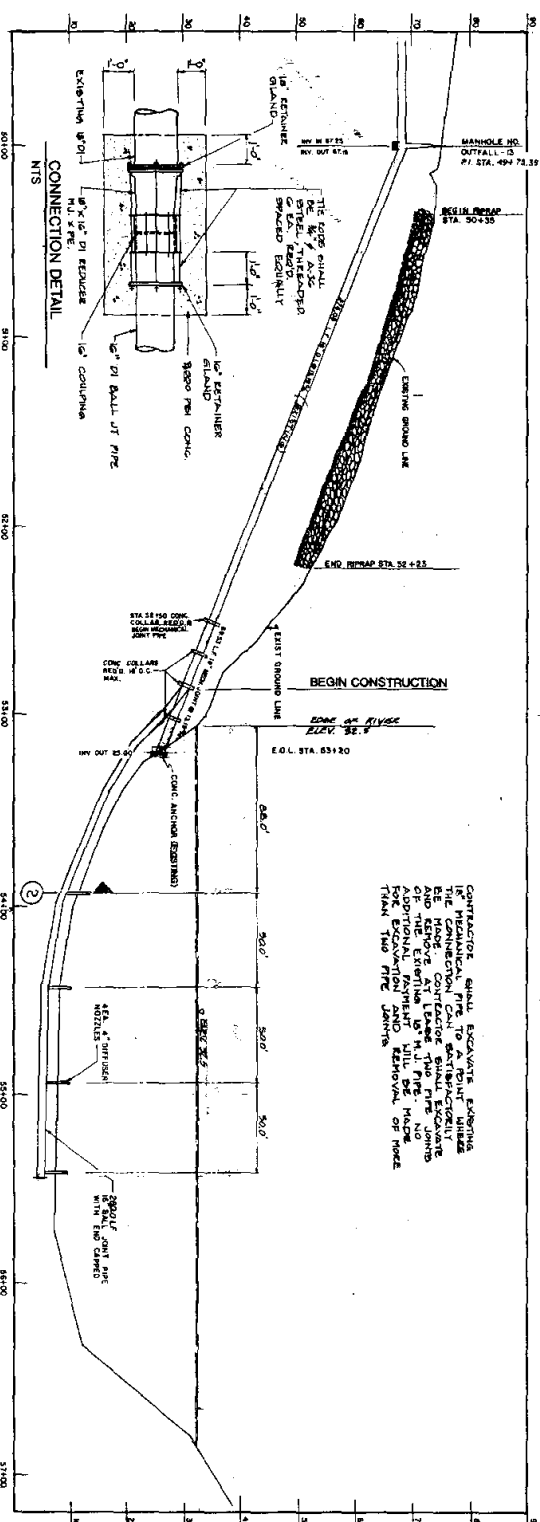
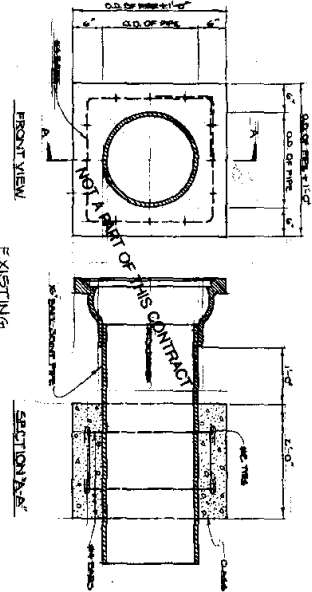
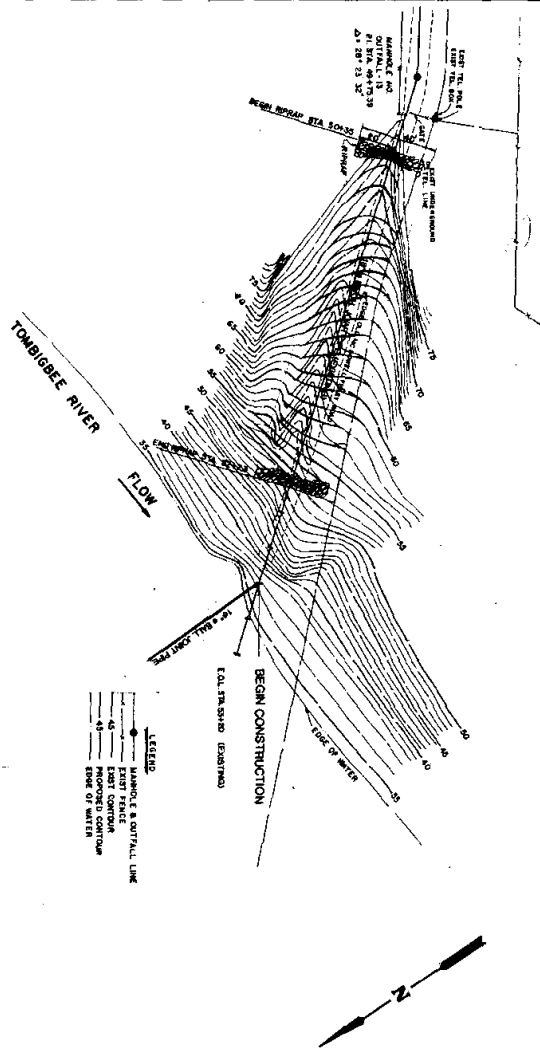
Diffuser length is defined as the distance between the first and last diffuser ports.

1. Diffuser length (m):	<u>72.54 m</u>
2. Nearest bank (right or left) to the outfall looking downstream:	<u>Left</u>
3. Distance from nearest bank to first diffuser port (m):	<u>26.82 m</u>
4. Total number of ports:	<u>4</u>
5. Diameter of a single port (m):	<u>0.10 m</u>
6. Distance between adjacent ports (i.e., port spacing, m):	<u>15.24 m</u>
7. Height of ports above stream bottom (m):	<u>0.4572 m</u>
8. Port contraction ratio (if known):	<u></u>
9. Diameter of diffuser manifold (m):	<u>0.406 m</u>
10. Effluent flow rate (mgd):	<u>1.946</u>

SPECIAL REQUIREMENTS

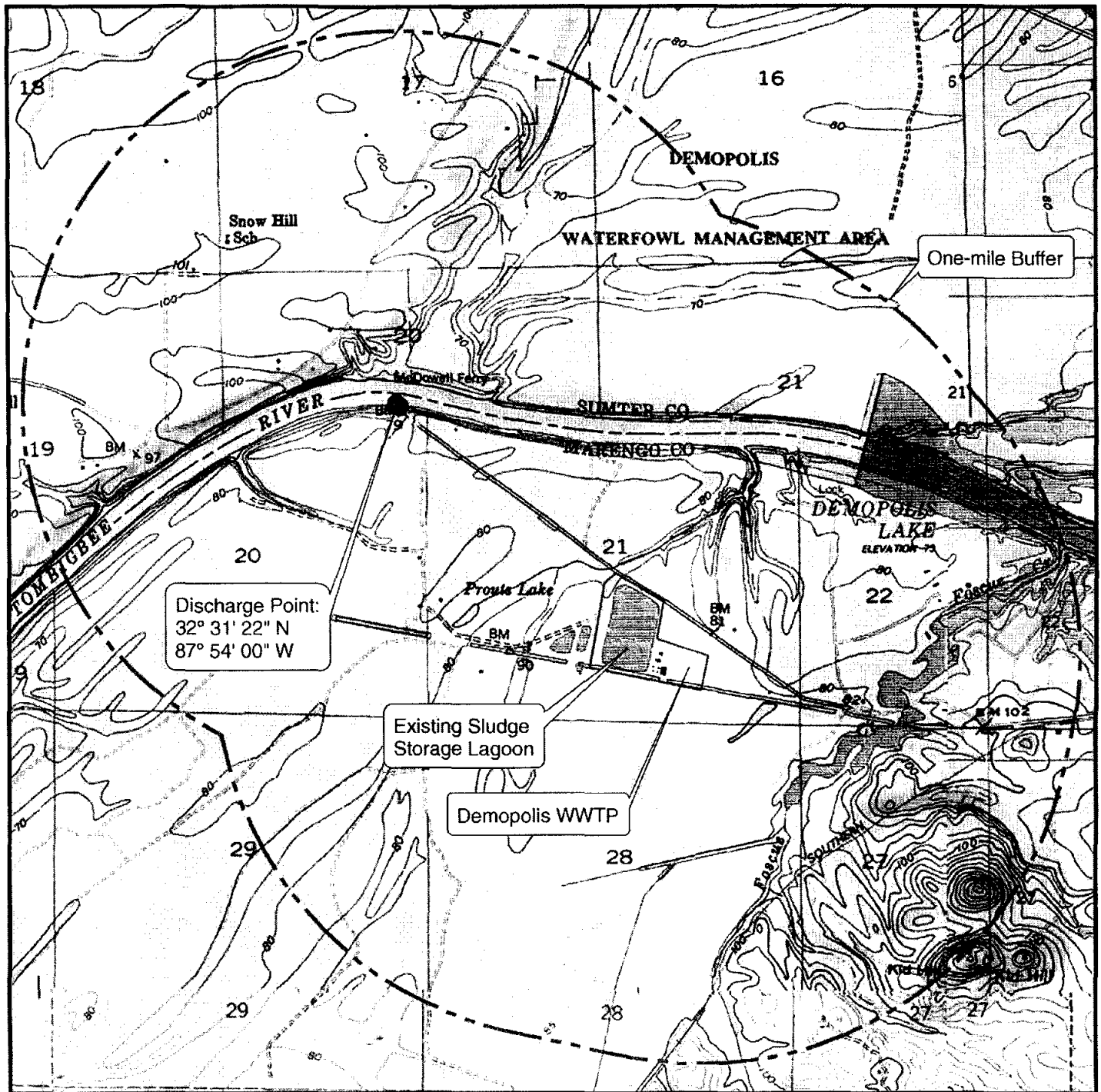
1. Please submit a map displaying the outfall location along with the appropriate latitude/longitude coordinates.
2. Please submit the appropriate engineering plans that depict the outfall configuration.





E.T.A. PROJECT NO. 01-00000 CITY OF MEMPHIS MODIFICATIONS TO W.W.T.P. DEPARTMENT OF SANITARY ALMON & ASSOCIATES, INC. CONSULTING ENGINEERS 1201 1/2		DATE 12-01-82
DESIGNED BY CHECKED BY DATE 12-01-82	DRAWN BY DATE 12-01-82	SCALE 1" = 1'-0"





Topographical Map - One-mile Site and Discharge Point Buffer

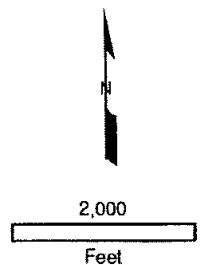
Demopolis 2009 Wastewater Treatment Plant Permit Renewal

Demopolis, Alabama

NPDES Permit AL0043168

August 2009

almon
associates



ALABAMA PRETREATMENT PROGRAM
MEMORANDUM OF AGREEMENT
BETWEEN THE
ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
AND THE
DEMOPOLIS WATER WORKS AND SEWER BOARD

Section 1. Authority and Purpose

1. As established by the Alabama Water Pollution Control Act (Code of Alabama 1975, Section 22-22-1 et seq.), the Alabama Department of Environmental Management (ADEM) is the state agency responsible for the control of water pollution and for the protection, maintenance, and improvement of water quality in the State.
2. Pursuant to Code of Alabama 1975, Section 22-22-9, it is the duty of the ADEM to receive applications and other data and to issue permits for the discharge of industrial wastes entering directly or through a municipal or private treatment facility into the water of the State.
3. Code of Alabama 1975, section 22-22A-4(n), designates the ADEM as the state water pollution control agency for all purposes of the Federal Water Pollution Control Act. (33 U.S.C. §1251 et seq.)
4. Under authority granted by the Federal Water Pollution Control Act, the Environmental Protection Agency (EPA) has promulgated certain General Pretreatment Regulations for Existing and New Sources of Pollution, 40 CFR 403 (43 Fed. Reg. 27736, June 26, 1978), which require the establishment of an approved State Pretreatment Program.
5. In accordance with the EPA Pretreatment Regulations and pursuant to its above-cited statutory authority, the ADEM adopted State Pretreatment Regulations on May 28, 1979.
6. It is the purpose of this Agreement to establish certain policies, responsibilities, and procedures to be followed by the parties to this

Agreement, namely the ADEM and the Town (City) of (hereinafter, the Publicly Owned Treatment Works or POTW) to aid in the management of the State Pretreatment Program established pursuant to the aforementioned regulations and statutory authority.

Section II. Responsibilities of POTW and ADEM

1. The pretreatment program will be administered at the state level with local participation as described herein, after the POTW has taken certain enabling actions. These actions consist of amending the sewer use ordinance to meet minimum requirements of state and federal pretreatment regulations, submitting an industrial user (IU) inventory in an acceptable format, and reaching agreement on a pretreatment implementation schedule in the POTW's NPDES Permit.
2. The ADEM will assume responsibility for the industrial survey to be conducted after promulgation of all pretreatment standards by EPA. The POTW may participate in this survey to any degree that is satisfactory to both parties.
3. The ADEM will review removal credit requests and will make an appropriate determination.
4. Fundamentally different factors variance requests by a given category of industry may be commented upon by the POTW. ADEM will make a preliminary finding and deny the request if fundamentally different factors do not exist. If such factors are found to exist, ADEM will forward to EPA a recommendation that the request be approved.

Section III. Permit Review and Issuance

1. Applications by an IU for a State Indirect Discharger (SID) Permit will consist of an engineering report conforming to a prescribed format. This application should be submitted to both the POTW and the ADEM for review and comment.
2. Pretreatment permits will be issued by the ADEM staff after agreement with these permits has been reached with the receiving POTW. A draft of each proposed permit will be provided the POTW and IU with a 30-day comment period. No comment within 30 days will result in issuance of the permit as proposed.
3. The ADEM will issue SID Permits to primary industries (as defined by 40 CFR) and significant industrial users. (For the purpose of this agreement, the term "significant industrial user" shall mean an IU which discharges greater than 0.025 MGD to a POTW, greater than 5 percent of the hydraulic or organic design capacity of the receiving POTW, or any IU having a priority pollutant in its discharge.)
4. Determination of an IU's pretreatment standard subcategory and SID Permit limits (if national pretreatment standards are unavailable) shall be made jointly between the POTW and ADEM. Minimum acceptable IU pretreatment standards will be those promulgated by EPA, although ordinance requirements may supersede national standards if more restrictive.
5. Prohibitive pretreatment determinations will be made in accordance with the POTW ordinance. The POTW ordinance will be required to meet the minimum criteria expressed in 40 CFR 403.5(b).
6. Permits will be issued under State regulations and procedures and will require renewal at five year intervals except that permits may be modified on promulgation of revised or new standards or, if agreeable to the POTW, at such time as IU process changes become a factor.

Section IV. Compliance Assurance

1. All permitted IU's shall submit self-monitoring data at monthly intervals to the ADEM and POTW. These monthly reports will be submitted using copies of monitoring forms approved by the ADEM and will be due by the 28th of the month following the reporting period.
2. The ADEM will maintain a compliance tracking system for permitted IU's. At the option of local authorities, the POTW may also choose to maintain a similar system. Copies of violation notices and other written communication concerning compliance tracking by the ADEM will be provided the POTW.
3. Primary and significant industrial users will receive at least one compliance evaluation inspection (CEI) and one compliance sampling inspection (CSI) by the ADEM each fiscal year. The POTW may participate in these inspections or independently conduct its own inspections more frequently. All CEI's and CSI's by the POTW will be maintained as a written report for accountability purposes.

Section V. Enforcement

1. Enforcement may be either a joint effort by the ADEM and POTW, or an independent effort by the POTW under its sewer ordinance or the ADEM under its State Pretreatment Regulations. Each party shall keep the other informed concerning all enforcement actions initiated.

Section VI. Reporting and Transmittal of Information

1. The POTW will advise the ADEM of all introductions of new pollutants into the POTW.
2. The POTW will transmit to the ADEM at quarterly intervals (by the 15th of January, April, July and October) copies of all CEI's or CSI's performed at IU facilities by the POTW.

3. The ADEM will transmit to the POTW at the above quarterly intervals copies of all CEI's or CSI's performed at IU facilities by the ADEM.
4. The ADEM will notify IU's and the POTW of the applicability of pretreatment standards as final standards are promulgated by EPA. The industrial user inventory provided by the POTW will be used as the basis for notifications to appropriate IU's.

Section VII. Revisions to Agreement

This agreement may be reviewed annually during the fourth quarter of each fiscal year (beginning October 1 and ending September 30) with revisions agreeable to both parties made at that time.

Section VIII. Approval and Effective Date of Agreement

This Memorandum of Agreement shall become effective fifteen (15) days following the date of the last signature below.

Hugh Allen April 13, 1983
Mayor Date
Town (City) of Demopolis, Ala.

Joe B. Broadwater
Director, ADEM

Date

DEMOPOLIS WATER WORKS AND SEWER BOARD

REGULATION OF SEWER USE/PRETREATMENT
ORDINANCE

Revision of Sewer Use Ordinance of Code Adopted and The Sanitary
Sewer and Pretreatment Regulations, Dated February 14, 1983
With Addition of Pretreatment Ordinance Herein as Principal

DEMOPOLIS WATER WORKS AND SEWER BOARD

DEMOPOLIS, ALABAMA

1983

DEMOPOLIS WATER WORKS AND SEWER BOARD
SEWER USE/PRETREATMENT ORDINANCE

Revised _____

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ARTICLE I GENERAL PROVISIONS

A. Purpose and Policy

This Ordinance sets forth uniform requirements for contributors into the wastewater collection and treatment system for The Demopolis Water Works and Sewer Board, Marengo County, Alabama, and enables the Board to comply with all applicable State and Federal laws required by the Clean Water Act of 1977 and the General Pretreatment Regulations (40CFR, Part 403).

The objectives of this Ordinance are:

- (a) To prevent the introduction of pollutants into the municipal wastewater system which will interfere with the operation of the system or contaminate the resulting sludge;
- (b) To prevent the introduction of pollutants into the municipal wastewater system which will pass through the system, inadequately treated, into receiving waters or the atmosphere or otherwise be incompatible with the system;
- (c) To improve the opportunity to recycle and reclaim wastewater and sludges from the system;
- (d) To provide for equitable distribution of the cost of the municipal wastewater system;
- (e) Establish a distribution of equitable costs for services and improvements to the sewerage systems for all consumers within the areas furnished sanitary sewer services and sewage treatment. The rate schedule for all customers using the sewerage systems shall be on a unit volume, based on metered water sales, that does not allow any quantity discount;
- (f) Prohibit the contribution of toxic compounds or substances in toxic concentrations and/or wastewater or sewage which may cause operational or maintenance difficulties or deteriorations in the sewers, force mains, pumping stations, and other structures appurtenant to the sewerage system;
- (g) Establish a system of controls and municipal permits for all industries and commercial establishments listed in the Standard Industrial Classification Manual or any other dischargers whose wastewater contribution requires great treatment expenditures for hydraulic and/or organic load than are required for equal volumes of normal domestic wastewater;
- (h) Establish effluent pollutant limits and maximum effluent pollutant concentrations (pounds/day) for all industrial and commercial establishments whose effluent pollutant concentrations exceed domestic wastewater concentrations and/or which contain toxic compounds or substances in toxic concentrations. The effluent limits

shall consist of both maximum and minimum values depending on the nature of the pollutant in question;

- (i) Establish hydraulic and organic loading requirements for industrial wastes before discharge of these wastes into the sewerage system;
- (j) Establish a uniform procedure for design, installation, inspection, operation, maintenance, record keeping, and billing for the entire sewerage system;
- (k) Require residential dwellings, housing developments and all other discharge not permitted under Article X, part B, to discharge into the sanitary sewer.

This Ordinance shall apply to Demopolis and to persons outside the City who are, by contract or agreement with the City, users of the City POTW. This Ordinance supersedes and repeals in its entirety the Sewer Use Ordinance, adopted October 10, 1981, and the Sanitary Sewer and Pretreatment Regulations, dated February 14, 1983, includes as the principal a Pretreatment Ordinance subject to additional regulatory changes.

B. Definitions

Unless the context specifically indicates otherwise, the meaning of terms used in this Ordinance shall be as follows:

- (1) "Act" , "The Act" , or "CWA" shall mean The Federal Water Pollution Control Act, also known as The Clean Water Act, as amended, U.S.C. 1251, ET. SEQ.
- (2) "ADEM" shall mean the Alabama Department of Environmental Management or its Representative.
- (3) "Approval Authority" shall mean the Alabama Department of Environmental Mangement.
- (4) "Authorized Representative of an Industrial User" shall mean any one of the following; (1) A principal executive officer of at least the level of Vice President, if the industrial user is a corporation; (2) A general partner or proprietor if the industrial user is a partner or proprietorship, respectively; (3) A duly authorized representative of the individual above if such representative is responsible for the overall operation of the facilities from which the indirect discharge originates.
- (5) "Board" shall mean the City of Demopolis Water Works and Sewer Board or its duly authorized deputy, agent, or representative.
- (6) "BOD" (denoting biochemical oxygen demand) shall mean the quantity of oxygen utilized in the biochemical oxidation of organic matter under standard laboratory procedure in five days at 20'C., expressed in parts per million by

weight. BOD shall be determined by standard methods as hereinafter defined.

- (7) "Building Drain" shall mean that part of the lowest horizontal piping of a drainage system which receives the discharge from soil, waste, and other drainage pipes inside the walls of the building and conveys it to the building sewer.
- (8) "Building Sewer" shall mean the extension from the building drain to the public sewer or other place of disposal.
- (9) "Categorical Standards" shall mean the National Categorical Pretreatment Standards or Pretreatment Standard.
- (10) "CFR" denotes Code of Federal Regulations.
- (11) "COD" denotes Chemical Oxygen Demand.
- (12) "Color" shall mean the true color as established by standard method due to the substances in solution expressed in mu.
- (13) "Combined Sewer" shall mean a sewer receiving both surface runoff and wastewater.
- (14) "Composite Sample" shall mean the makeup of a number of individual samples, so taken as to represent the nature of wastewater or industrial wastes.
- (15) "Constituents" shall mean the combination of particles, chemicals, or conditions which exist in the industrial wastes.
- (16) "Contribute" shall mean the addition, discharge, or introduction of any substance into the POTW as hereinafter defined.
- (17) "Control Authority" shall refer to the "Approval Authority", defined hereinabove; or the ADEM.
- (18) "Cooling Water" shall mean the water discharged from any use such as air conditioning, cooling or refrigeration, or to which the only pollutant added is heat.
- (19) "Direct Discharge" shall mean the discharge of treated or untreated wastewater directly to the waters of the State of Alabama.
- (20) "Domestic Sewage" or "Normal Sewage" shall mean any waste water which is not prohibited by Article II, Section A, contained herein.
- (21) "Effluent" shall mean the discharge or flow of a treatment facility.

- (22) "EPA" shall mean the U.S. Environmental Protection Agency, or where appropriate the term may also be used as a designation for the Regional Administrator or other duly authorized official of said Agency.
- (23) "Flammable" shall be as defined by existing fire regulations covering the City.
- (24) "Garbage" shall mean solid wastes from the domestic and commercial preparation, cooking, and dispensing of food, and from the handling, storage, and sale of produce.
- (25) "Grab Sample" shall mean a sample which is taken from a waste stream on a one-time basis with no regard to the flow in the waste stream and without consideration of time.
- (26) "Holding Tank Waste" shall mean any waste from holding tanks, such as vessels, chemical toilets, campers, trailers, septic tanks, and vacuum-pump tank trucks.
- (27) "Indirect Discharge" shall mean the discharge or introduction of non-residential wastewater from any source regulated under Section 307 (b) or (c) of the Act, (33 U.S.C. 1317), into the POTW (including holding tank waste discharged into the system).
- (28) "Industrial User" or "Contributor" shall mean a source of direct discharge which constitutes a discharge of pollutants under regulations issued pursuant to Section 402 of the Act.
- (29) "Industrial Wastes" shall mean the liquid wastes from industrial manufacturing processes, trade, or business as distinct from sanitary sewage.
- (30) "Industrial Waste Surcharge" shall mean the additional service charge assessed against industries in the City service area whose waste characteristics exceed those of normal wastewater or permitted limits.
- (31) "Influent" shall mean the wastewater arriving at the wastewater treatment plant for treatment and those structures associated with its initial treatment.
- (32) "Interference" shall mean the inhibition or disruption of the POTW's treatment processes, operations, or sewer system which contributes to a violation of any requirement of its NPDES permit. The term includes prevention of sewage sludge use or disposal by the POTW in accordance with Section 405 of the Act, or any criterial guidelines or regulations developed pursuant to the Solid Waste Disposal Act (SWDA), the Clean Water Act, the Toxic Substances Control Act, or more stringent State criteria (including those contained in any State sludge management plan prepared pursuant to Title IV of SWDA) applicable to the method of disposal or use employed by the POTW.

- (33) "l" denotes liter.
- (34) "MBAS" denotes methylene-blue-active substances.
- (35) "Metered Water" shall mean the amount of all sources of water, including wells, consumed by the sewer customer.
- (36) "mg/l" denotes milligrams per liter and shall mean ratio by weight, interchangeable with ppm.
- (37) "ppm" denotes parts per million and shall mean ratio by weight.
- (38) "National Pollution Discharge Elimination System Permit" or "NPDES Permit" shall mean a permit issued to a POTW pursuant to Section 402 of the Act (33 U.S.C. 1342).
- (39) "NPDES State" shall mean a State or interstate water pollution control agency with an NPDES permit program approved pursuant to Section 402(b) of the Act (33 U.S.C. 1342).
- (40) "National Pretreatment Standard" shall mean any regulation containing pollutant discharge limits promulgated by the EPA in accordance with Section 307(b) and (c) of the Act which applies to industrial users.
- (41) "Natural Outlet" shall mean any outlet into a watercourse, pond, ditch, lake, or other body of surface or groundwater.
- (42) "New Source" shall mean any source, the construction of which is commenced after the publication of proposed regulations prescribing a Section 307(c) (33 U.S.C. 1317) categorical pretreatment standard which will be applicable to such source, if such standard is thereafter promulgated within 120 days of proposal in the Federal Register. Where the standard is promulgated later than 120 days after proposal, a New Source shall mean any source, the construction of which is commenced after the date of promulgation of the standard.
- (43) "Normal" shall mean those values taken as standards in the measurement of this division; these limits are defined in context.
- (44) "Person" or "Owner" shall mean any individual; firm; company; joint stock company; association; society; corporation; group; partnership; co-partnership; trust; estate; governmental or legal entity; or their assigned representatives, agents, or assigns. The masculine gender shall include the feminine, the singular shall include the plural where indicated by context.
- (45) "pH" shall mean the logarithm (base 10) of the reciprocal of the hydrogen ions in grams per liter of solution. A stabilized pH will be considered as a pH which does not change beyond the specified limits when the waste is subject to aeration. pH shall be determined by standard methods as hereinafter defined.
- (46) "Pollution" shall mean the man-made or man-induced alteration of the chemical, physical, biological, and radiological integrity of water.

- (47) "Pollutant" shall mean any constituent identified in a National Categorical Pretreatment Standard or any item identified as incompatible in Article II contained herein.
- (48) "Pretreatment" shall mean the reduction of the amount of pollutants, the elimination of pollutants, or the alteration of the nature of pollutant properties in wastewater to a less harmful state prior to or in lieu of discharging or otherwise introducing such pollutants into a POTW. The reduction or alteration can be obtained by physical, chemical, or biological processes; process changes; or other means except as prohibited by 40 CFR Section 403.6 (d).
- (49) "Pretreatment Requirement" or "Pretreatment Standard" shall mean any substantive or procedural requirement related to pretreatment, or other than a National Pretreatment Standard imposed on an industrial user.
- (50) "Properly Shredded Garbage" shall mean the wastes from the preparation, cooking, and dispensing of food that has been shredded to such a degree that all particles will be carried freely under the flow conditions normally prevailing in public sewers, with no particle greater than one-half ($\frac{1}{2}$) inch (1.27 centimeters) in any dimension.
- (51) "Publicly Owned Treatment Works" or "POTW" shall mean a treatment works as defined by Section 212 of the Act (33 U.S.C. 1292) which is owned, in this case, by the Board. This definition includes any sewers that convey wastewater to such treatment works, but does not include pipes, sewers, or other conveyances not connected to a facility providing treatment. The term shall also mean the City of Demopolis, Water Works and Sewer Board.
- (52) "POTW Treatment Plant" shall mean that portion of the POTW designed to provide treatment to wastewater.
- (53) "Public Sewer" shall mean a sewer in which all owners of abutting properties have equal rights, and is controlled by public authority.
- (54) "Receiving waters" shall mean those waters into which wastes are discharged.
- (55) "Residential" or "domestic user" shall mean a premise or person who discharges wastewater to the City sewers, that is of a volume and strength typical for residences, and further for billing purposes, is defined as a dwelling place or place of residence.
- (56) "Sanitary Sewer" shall mean a sewer which carries wastewater and to which storm, surface, and groundwaters are excluded.
- (57) "Sewage" shall mean a combination of the water-carried wastes from residences, business buildings, institutions, and industrial establishments, together with such ground, surface, and stormwaters as may be present.

- (58) "Sewage Treatment Plant" shall mean any arrangement of devices and structures used for treating sewage.
- (59) "Sewage Works" shall mean all facilities for collecting, pumping, treating, and disposing of sewage.
- (60) "Sewer" shall mean a pipe or conduit for carrying sewage or wastewater.
- (61) "Shall" is mandatory; "May" is permissive.
- (62) "Slug" shall mean any discharge of water, sewage, or industrial waste which in concentration of any given constituent or in quantity of flow exceeds for any period of duration longer than fifteen (15) minutes more than five (5) times the average twenty-four (24) hour concentration or flows during normal operation.
- (63) "SWDA" denotes the Solid Waste Disposal Act, 42, U.S.C. 6901, ET. SEQ.
- (64) "Standard Industrial Classification" or "SIC" shall mean the classification pursuant to the Standard Industrial Classification Manual issued by the Executive Office of the President, Office of Management and Budget, 1972.
- (65) "Standard Methods" shall mean those sampling and analysis procedures established by and in accordance with EPA pursuant to Section 304 (g) of the Act and contained in 40 CFR, Part 136, as amended or the "Standard Methods for the Examination of Water and Sewage" as prepared, approved, and published jointly by the American Public Health Association, the American Water Works Association, and the Water Pollution Control Federation. In cases where procedures vary, the EPA methodologies shall supersede.
- (66) "SIC" shall mean the Standard Industrial Classification Code.
- (67) "SID Permit" shall mean a State Indirect Discharge permit issued by the Alabama Department of Environmental Management. Such permits shall be issued to discharges of non-domestic pollutants from any source, including but not limited to those regulated under Section 307(b) or (c) of the Federal Act, to a POTW.
- (68) "Storm Sewer" or "storm drain" shall mean sewer which carries storm and surface waters and drainage, but excludes wastewater and polluted industrial wastes.
- (69) "Superintendent" shall mean the Superintendent of the Demopolis Water Works and Sewer Board.
- (70) "Suspended solids" shall mean solids that either float on the surface or are in suspension in water, wastewater, or liquid and which are removable by laboratory filtering.
- (71) "TOC" (denoting total organic carbon) shall mean the quantity of dissolved oxygen required for the chemical oxidation of

decomposable matter under aerobic conditions. TOC shall be determined by standard methods as hereinafter defined.

- (72) "Total Solids" shall mean total weight ppm of all solids: dissolved, undissolved, organic, or inorganic.
- (73) "TSS" denotes total suspended solids.
- (74) "Toxic" shall mean constituents of wastes which adversely affect the organism involved in wastewater treatment.
- (75) "Toxic Pollutant" shall mean any pollutant or combination of pollutants listed as toxic in regulations promulgated by the Administrator of the EPA under the provisions of CWA 307 (a) or other Acts.
- (76) "U. S. C. " denotes United States Code.
- (77) "User: shall mean any person who contributes, causes, or permits the contribution of wastewater into the City's POTW.
- (78) "Watercourse" shall mean a channel in which a flow of water occurs, either continuously or intermittently.
- (79) "Wastewater" shall mean any solid, liquid, gas, or radiological substance originating from residences, business buildings, institutions, and industrial establishments, together with any groundwater, surface water, and storm-water that may be present, whether treated or untreated, which is contributed into or permitted to enter the POTW.
- (80) "Waters of the State of Alabama" shall mean any water, surface or underground, within boundaries of the State.

ARTICLE 11 - DISCHARGE PROHIBITIONS

A. General Discharge Prohibitions

No user, person, firm, or corporation shall contribute or cause to be contributed, directly or indirectly, any pollutant or wastewater which will interfere with the operation or performance of the POTW. These general prohibitions apply to all such users of a POTW whether or not the user is subject to National Categorical Pretreatment Standards or any other National, State, or local Pretreatment Standards or Requirements. A user may not contribute the following substances to any POTW.

- (1) Any liquids, solids or gases which by reason of their nature or quantity are, or may be, sufficient either alone or by interaction with other substances to cause fire or explosion or be injurious in any other way to the POTW or to the operation of the POTW. At no time shall two successive readings on an explosion hazard meter, at the point of discharge into the system (or at any point in the system), be more than five percent (5%) nor any single reading over ten percent (10%) of the Lower Explosive Limit (LEL) of the meter. Prohibited materials include, but are not limited to: alcohols, aldehydes, benzene, bromates, carbides, chlorates, commercial solvents, ethers, fuel oil, gasoline, or any hydrocarbon derivatives, hydrides, kerosene, ketones, mineral spirits, motor oils, naphtha, perchlorates, peroxides, sulfides, toluene, xylene and any other substances which the City, the State, or EPA has notified the User is a fire hazard or a hazard to the system.
- (2) Any pollutants which will cause corrosive structural damage to the POTW (in no case with a pH less than 6.0 or higher than 9.0) or wastewater having any other corrosive property capable of causing damage or hazard to structures, equipment, and / or personnel of the POTW.
- (3) Solid or viscous substances in amounts which may cause obstruction to the flow in a sewer or other interference with the operation of the POTW such as, but not limited to: garbage not properly shredded or garbage with particles greater than one-half in. (1/2") in any dimension, ashes, cinders, animal entrails, paunch, manure, offal, bones, hair, hides or fleshings, whole blood, beer or distillery slops, feathers, sand, lime residues, stone or marble dust, metal, glass, straw, grass clippings, rags, spent grains, spent hops, waste paper, wood, plastics, fiberglass, paint, or ink residues, gas, tar, asphalt residues, chemical residues, residues from refining or processing of wastes; any water or waste which contains more than 100 ppm (by weight) of animal or mineral fats, oil, grease; or any water or waste which contains a substance that will solidify or become viscous at temperatures between 32°F and 90°F.

The installation and operation of any garbage grinder equipped with a motor of three-fourths (3/4) horsepower or greater shall be subject to the review and approval of the superintendent.

- (4) Any pollutants, including oxygen demanding pollutants (BOD, etc.) released at a flow and/or pollutant concentration which will cause interference to the POTW. In no case shall a discharge have a flow rate or contain concentration or qualities of pollutants that exceed for any time period longer than fifteen (15) minutes, more than five (5) times the average twenty-four (24) hour concentration, quantities, or flow during normal operation of the discharger's facility.
- (5) Any wastewater having a temperature which will inhibit biological activity in the POTW resulting in interference, but in no case wastewater with a temperature at the introduction into the POTW plant which exceeds 40°C. (104°F). Unless a higher temperature is allowed in the user's SID permit, no user shall discharge into any sewer line or appurtenance of the POTW wastewater with a temperature exceeding 65.6°C. (150°F) (See exceptions)
- (6) Any wastewater containing toxic pollutants in sufficient quantity, either singly or by interaction with other pollutants, to injure or interfere with any wastewater treatment process, constitute a hazard to humans or animals, create a toxic effect in the receiving waters of the POTW, or to exceed the limitation set forth in a Categorical Pretreatment Standard. A toxic pollutant shall include but not be limited to any pollutant identified pursuant to Section 307 (a) of the Act.
- (7) Any noxious or malodorous liquids, gases, or solids which either singly or by interaction with other wastes are sufficient to create a public nuisance, while being conveyed through the sanitary sewer and at the POTW operating in its normal mode, as defined by State law, or hazard to life or are sufficient to prevent entry into the sewers for their maintenance and repair.
- (8) Any substance which may cause the POTW's Effluent or any other product of the POTW such as residues, sludges, or scums, unusual concentrations of inert suspended solids, to be unsuitable for reclamation and reuse or to interfere with the reclamation process where the POTW is pursuing a reuse and reclamation program or to cause undue additional labor and materials in connection with its operation. In no case shall a substance discharged to the POTW cause the POTW to be in non-compliance with sludge use or disposal criteria, guidelines, or regulations affecting sludge use or disposal developed pursuant to the Solid Waste Disposal Act, the Clean Air Act, the Toxic Substances Control Act, State criteria applicable to the sludge management method being used, or any future Federal regulation.

(9) Any substance which will cause the POTW to violate its NPDES and /or State Disposal System Permit or the receiving water quality standards.

(10) Any wastewater with objectionable color (greater than 50 ppm) not removed and discharged into the POTW, such as, but not limited to, dye wastes and spent tanning solutions.

(11) Any liquid or wastewater containing quantities of radio-active waste in excess of presently existing or subsequently accepted limits for drinking water as established by applicable State or Federal regulations.

(12) No statement contained in this article shall be construed as preventing any special agreement or arrangement between the Board and any industrial concern whereby an industrial waste of unusual strength or character may be accepted by the Board for treatment, subject to payment therefore, by the industrial concern, as long as the POTW operation complies within the NPDES limits authorized by EPA and ADEM.

B. Fixed Upper Limits on Wastewater Constituents

The limits enumerated herein may be used as a guide in design and plant control. The Board may enforce a more stringent limitation than that which is imposed by a National Categorical Pretreatment Standard, if in the opinion of the Board, an interference exists in the Boards POTW.


1. Materials such as copper, zinc, chromium, and similar toxic substances shall be limited to the following maximum average daily (24 hour day) quantities and concentrations when measured at the point of discharge into the sanitary sewer, and at no time shall a concentration of one of these materials in an instantaneous grab sample exceed 2.0 times the maximum average daily concentration:

* Maximum Average Daily Concentration

Cadmium as Cd	.2 ppm
Aluminum as Al	10.0 ppm
Arsenic as AS	0.2 ppm
Chromium as total C	5.0 ppm
Chromium hexavalent	0.2 ppm
Iron as Fe	15.0 ppm
Manganese as MN	2.0 ppm
Lead as Pb	0.2 ppm
Zinc, total	3.6 ppm
Copper, total	2.0 ppm
Nickel, total	1.0 ppm
Silver, total	0.5 ppm
Mercury	case by case basis

* Maximum average daily concentrations should be corrected for the levels of metals naturally found in the treated influent waters used in the industrial process. These levels are in addition to quantities found in the influent waters. Maximum average daily quantities shall be complied on a case by case basis.

2. Nutrients such as nitrogen and phosphorous shall be limited to the following maximum average daily (24 hour day) quantities and concentrations when measured at a point of discharge into the sanitary sewer; and at no time shall a concentration of one of these materials in any instantaneous grab sample exceed 2.0 times the maximum average daily concentration:



	<u>Maximum Average Daily Concentrations</u>	<u>Maximum Average Daily Quantity</u>
Organic Phosphorus as P	5 ppm	1.0 #/day
Inorganic Phosphorus as P	15 ppm	2.0 #/day
Organic Nitrogen as N	25 ppm	1.0 #/day
Free Ammonia as N	30 ppm	0.2 #/day
Nitrites & Nitrates as N	5 ppm	4.0 #/day

C. Prohibitions on Storm Drainage and Ground Water

Storm water, ground water, rain water, street drainage, roof top drainage, basement drainage, subsurface drainage, yard drainage, uncontaminated cooling water, unpolluted industrial process waters, shall not be discharged through direct or indirect connections to a community sewer.

Storm water and all other unpolluted drainage shall be discharged to such sewers as are specifically designated as storm sewers, or to a natural outlet approved by the ADEM. Industrial cooling water or unpolluted process waters may be discharged, on approval of the ADEM to a storm sewer, or natural outlet.


D. National Categorical Pretreatment Standards

Certain industrial users now or hereafter shall become subject to National Categorical Pretreatment Standards promulgated by the EPA specifying quantities or concentrations of pollutants or pollutant properties which may be discharged into the POTW. All industrial users subject to a National Categorical Pretreatment Standard shall comply with all requirements of such standard, and shall also comply with any additional or more stringent limitations contained in this article.

E. State Requirements

State requirements and limitations on discharges shall apply in any case where they are more stringent than federal requirements and limitations or those in this ordinance.

F. Excessive Discharge



No user shall ever increase the use of process water or, in any way, attempt to dilute a discharge as a partial or complete substitute for adequate treatment to achieve compliance with the limitations contained in the National Categorical Pretreatment Standards or in any other pollutant specific limitation developed by the Board and ADEM. Where necessary in the opinion of the ADEM equalizing may be required to bring constituents or volume to an acceptable level and to hold or equalize flows such that no peak flow conditions may interfere with the POTW. Said equalization or holding unit shall have a capacity suitable to serve its intended purpose, as stated above, and be equipped with acceptable outlet control facilities to provide flexibility in operation and accommodate changing conditions in the waste flow.

G. Accidental Discharges

G.1 General

In case of an accidental discharge, it is the responsibility of the user to immediately telephone and notify the POTW of the incident. The notification shall include: 1) location of discharge; 2) type of waste; 3) concentration and volume, and 4) corrective actions

G.2 Written Notice

Within five (5) calendar days following an accidental discharge, the user shall submit to the Board and ADEM a detailed written report describing the cause of the discharge and the measures to be taken by the user to prevent similar future occurrences. Such notification shall not relieve the user of any expense, loss, damage, or other liability which may be incurred as a result of damage to the POTW, fish kills, or any other damage to person or property; nor shall such notification relieve the user of any fines, civil penalties, or other liability which may be imposed by this article or other applicable law. Violation of this provision shall constitute a misdemeanor, punishable as provided in the Code of the City of Demopolis.

ARTICLE III - ENFORCEMENT OF ORDINANCE

A. Criminal

It shall be unlawful to violate any of the provisions of this Chapter or any requirement of a permit issued, including an SID permit, pursuant to the terms of this Chapter. Violation shall be punishable as a misdemeanor, pursuant to the provisions of the City Code of Demopolis. Each day a violation continues to exist shall constitute an independent and separate offense.

B. Civil

The discharge of wastewater of any other pollutant in violation of this Chapter is hereby declared to be a public nuisance. The Board may file in the Circuit Court of Marengo County or any other court of competent jurisdiction, a suit seeking to have the user's conduct declared a public nuisance, pursuant to Section 11-47-117, Section 11-47-118, and Section 6-5-122, Code of Alabama, 1975, or any other law, and further, seeking the issuance of an injunction to abate said nuisance and/or any other appropriate relief to enforce the provisions of this Chapter.

C. Revocation of Permit and/or Termination of Services

In addition to any other action the Board may take against a user for violations of the provisions of this Chapter or a permit issued, pursuant to this Chapter, the Board may also revoke, amend or suspend the user's permit and/or terminate the user's connection to the Sanitary Sewer System, by excluding the wastewater of the user for violations of this Chapter or permits issued, pursuant to this Chapter.

Action by the Board to revoke, suspend, or amend the user's permit and/or terminate user's sanitary sewer connection may be taken when the user commits any one of the following acts or allows any one of the following to occur:

- (1) A violation of the terms or conditions of this Chapter occurs or a violation of any regulation issued, pursuant to this Chapter.
- (2) The action is necessary to protect the Board's POTW.
- (3) When the user has obtained a permit by misrepresentation or has failed to disclose fully all relevant facts.
- (4) A change in any condition that requires either a temporary or permanent reduction or elimination of the permitted discharge.
- (5) A violation of any term or condition of the SID Permit issued by the State.

- (6) User discharges wastewater at an uncontrolled, variable rate in sufficient quantity to cause an imbalance in the POTW.
- (7) User fails to pay quarterly or monthly bills for sanitary sewer services when due or a claim by the Board.
- (8) User repeats a discharge of prohibited waste to the POTW.
- (9) The Board is reliably informed or has reason to believe that the effluent from the Wastewater Treatment Plant is no longer of quality permitted for discharge to a water course, and it is found that the user is delivering wastewater to the POTW that cannot be sufficiently treated or the same requires treatment that is not provided by the Board as a normal domestic treatment.

C.1 Notice

The Board prior to any action as enumerated in Subsection 1 or 2 of Section C of this Article, shall notify the user or his designated representative in writing, either by personal service or by certified mail.

Said Notice shall set forth the specific violation and/or the reason enumerated in the preceding Section, for which revocation, amendment or suspension of the user's permit and/or termination of the user's connection to the Sanitary Sewer System is sought by the Board.

Said Notice shall also set forth the character of the violation and the dates on which such violations occurred, to enable the user to prepare his defense.

Said Notice shall also set a time and a place for a Hearing, not to exceed ten (10) days from the date of service of the Notice on the user. At said Hearing, the user may appear and be afforded a full opportunity to be heard.

C.2 Hearing

The Hearing shall be conducted by the Board Superintendent at a date and a time as specified in the Notice and, in any event, not to exceed ten (10) days from the date of service of Notice on the user.

At said Hearing, user shall be allowed to be represented by any one of his choosing, user shall also have the right to produce any evidence he deems relevant. The Board Superintendent shall hear such other evidence as he deems relevant to the issues.

The Board Superintendent shall make a written decision within ten (10) days from the date of said Hearing. Written notice of said decision shall be served on the user or his designated representative within ten (10) days from the date of the decision. Said decision shall set forth what action the Board will take and the reasons therefor.

C.3 Decision

The Board Superintendent is authorized to revoke, suspend, or amend the user's permit and/or terminate the user's connection to the City Sanitary Sewer System, upon a finding as set forth in Subsection 1 and 2 of Section C of this Article.

Such action, as decided by the Board Superintendent, shall be taken only after the time for appeal has expired and shall continue until such time as the industrial customer or user provides additional pretreatment or other facilities designed to remove the interfering constituents from his wastewater and/or the reasons for the action have ceased to exist.

C.4 Appeal

Any user, aggrieved by the decision of the Board Superintendent, shall have the right to appeal to the Council of the City of Demopolis.

The Appeal must be filed by the user, with the City Clerk, within ten (10) days from the date of service of the Board Superintendent's decision made on the user. Said Appeal shall be in writing.

The timely filing of the Appeal by the user shall stay the decision of the Board Superintendent, no action shall be taken on the Board Superintendent's decision, and the Appeal to Council shall be de novo. However, the Appeal shall not stay any civil or criminal action initiated by the Board against the user.

The City Clerk shall set the Appeal for a Public Hearing before the City Council of the City of Demopolis. Said Hearing shall be held no later than ten (10) days from the date of the filing of the Appeal with the City Clerk.

At said Public Hearing, the user may appear and shall be provided an opportunity to be heard. The City Council of the City of Demopolis may require the Board Superintendent or any other employee of the Board to also appear and be heard by the Council.

The Council of the City of Demopolis shall render a decision by Resolution within ten (10) days from the date of said Hearing before the Council. A Certified copy of said Resolution shall be served on the user within ten (10) days from the date of the decision by the Council. Said Resolution of the Council's decision shall set forth the action to be taken and the reasons, including violations of the Chapter which necessitate said action as enumerated in Subsections 1 and 2 of Section C of this Article.

D. Emergency Termination of Service

In the event of an actual discharge or threatened discharge to the POTW of any pollutant which, in the opinion of the Wastewater Treatment Engineer, poses an immediate threat of serious irreparable harm to the

public health, safety and welfare, either directly or indirectly through interference with the operation of the POTW, the Superintendent may immediately terminate sewer service and shall immediately notify the Mayor and the ADEM of action taken and the nature of the emergency.

The Superintendent shall immediately make every reasonable effort to notify the user or other person causing the emergency and requesting their assistance in abating the same.

The Board shall give Notice to the user upon taking any action. Said Notice shall conform in all respects to that required in Section C of this Article. The Board shall also immediately implement the procedures as enumerated in Section C of this Article, with the exception that the Board may immediately terminate sewer service pending the hearing before the Council as set out in Section C of of this Article.

E. Assessment of Damages to Users

When a discharge of waste proximately causes an obstruction, damage or any other impairment to the facilities of the Board or any expense of whatever character or nature to the Board, the Wastewater Treatment Engineer shall assess the expenses incurred by the Board to clear the obstruction, repair damage to the facility, and any other expenses or damages proximately caused to the Board by the discharge. The Board shall file a claim with the user or any other person causing or suffering said damage to occur seeking reimbursement for any and all expenses or damages suffered by the Board. If the claim is ignored or denied, the Board shall notify its Legal Department to take such measures as shall be appropriate to recover for any expense or other damage suffered by the Board.

F. Petition for Federal or State Enforcement

In addition to any other remedies for enforcement provided herein, the Board may petition the State of Alabama, or the United States Environmental Protection Agency as appropriate, to exercise such methods or remedies as shall be available to such government entities, to seek criminal or civil penalties, injunctive relief, or such other remedies as may be provided by applicable pretreatment standards, to prevent the introduction of toxic pollutants or other regulated pollutants into the POTW, or to prevent such other water pollution as may be regulated by State or Federal laws.

ARTICLE IV - SID PERMIT, DISCHARGE REPORTS, AND ADMINISTRATION

A. Application and Permit Requirements for Primary and Significant Industrial Users

All primary or significant industrial users as defined by the ADEM, prior to discharging non-domestic waste into the POTW, shall submit an original and two copies of an application and engineering report to the Board for the purpose of obtaining an SID permit. The original and copies of said package shall be submitted to the Superintendent for review and comment prior to forwarding to the ADEM. The engineering report shall contain the information specified in Section B hereof. The user shall submit to the Board and ADEM revised plans whenever alterations or additions to the user's premises deviate from the originally submitted plans. Any currently connected primary or significant user discharging waste other than domestic waste who has not heretofore filed such a report shall file same with the Board and ADEM no later than six (6) months after the effective date of this Ordinance.

B. Application and Report Requirements

The application and report required by Section A above or other provisions of this Article for all primary significant industrial users shall contain in units and terms appropriate for evaluation the information listed in subsections (1) through (7) below. Industrial users subject to National Categorical Pretreatment Standards shall submit to the Board and ADEM a report which contains the information listed in subsection (1) through (10) below within one hundred and eighty (180) days after the promulgation by the Environmental Protection Agency of a National Categorical Pretreatment Standard under Section 307 (b) or (c) (33 U.S.C. 1317(b) or (c) of the Act where such National Categorical Pretreatment Standards have been promulgated prior to the effective date of this Article. Primary or significant industrial users who are unable to achieve compliance with the provisions of Article II hereof without improved operation and maintenance procedures or pretreatment shall submit a report which contains the information listed in subparagraph (1) through (10) of this paragraph. As specified hereinabove, the report shall be certified by a Professional Engineer registered in the State of Alabama and contain all or applicable portions of the following:

- (1) General information including name and affiliation of company, number of employees, product(s) to be manufactured, including rate of production and SIC number(s), hours of operation, and water supply or supplies (i.e. well water) and disposition.
- (2) Location map showing location of manufacturing plant (with latitude and longitude), treatment facilities, drainage, and appurtenance structures such as manholes and indicating locations of each discharge point. In case of indirect discharges, location of sewer and point of industry tie-in should be shown.

- (3) Narrative account of manufacturing operation(s) explaining and/or defining raw materials, processes, and products. Blockline or schematic diagrams indicating points of waste origin and its collection and disposition should be included.
- (4) The average and maximum total flow and the daily flow pattern and seasonal variations of each discharge from such industrial user to the sewer system, in gallons per day.
- (5) The average and maximum of both quantity and quality of the wastewater discharge from each regulated process from such industrial user and identification of any applicable Pretreatment Standards and Requirements. The concentration shall be reported as maximum or average level as provided for in the applicable Pretreatment Standard. If an equivalent concentration limit has been calculated in accordance with any Pretreatment Standard, this adjusted concentration limit shall also be submitted to the ADEM for approval.
- (6) Description of existing or proposed waste treatment facilities where applicable, including plans and specifications, design parameters, pretreatment measures, and recovery systems. Means of handling cooling water, storm drainage, and sanitary wastes should be discussed. Containment systems for product storage areas, loading and intermediate, or raw material handling areas, process areas, and other areas with spill potential should be described. Where applicable, the availability of a Spill Prevention Control and Containment (SPCC) Plan should be indicated.
- (7) When treatment sludges are generated, dewatering handling and method and location of disposal should be indicated. Quantity and analysis information should be also furnished.
- (8) In the case of new or expanded treatment systems, copies of logs for test borings in the vicinity of treatment facilities of earthen construction should be furnished to facilitate a geologic/hydrologic review.
- (9) A statement reviewed and signed by an authorized representative of the Industrial User indicating whether Pretreatment Standards are being met on a consistent basis and, if not, whether additional operation and maintenance procedures or additional pretreatment is required for the Industrial User to meet the Pretreatment Standard and Requirements; and
- (10) If additional pretreatment or operation and maintenance procedures will be required to meet the Pretreatment Standards, then the report shall contain the shortest schedule by which the industrial user will provide such additional pretreatment. The completion date in this schedule shall not be later than the compliance date established for the applicable Pretreatment Standard.

C. Incomplete SID Application

Persons who have filed incomplete applications will be notified in writing by the Board that the application is deficient and the nature of such deficiency and will be given forty-five (45) days or within such extended period as allowed by the Board to respond in writing. If no written response is received from the applicant in the time frame specified by the Board, the Board shall submit the application to the ADEM with a recommendation that it be denied and notify the applicant in writing of such action.

D. Evaluation of SID Applications

All SID permit applications will be dealt with in accordance with procedures enumerated in the Memorandum of Agreement executed between the City of Demopolis Water Works and Sewer Board and the Alabama Department Environmental Management. The City may recommend to the ADEM that the SID permit applications require any of the following items:

- (1) Pretreatment Requirements;
- (2) The average and maximum wastewater constituents and characteristics;
- (3) Limits on rate and time of discharge or requirements for flow regulations and equalization;
- (4) Requirements for installation of inspection and sampling facilities;
- (5) Specifications for monitoring programs which may include sampling locations, frequency and method of sampling, number, types and standards for tests and reporting schedule;
- (6) Requirements for submission of technical reports or discharge reports;
- (7) Requirements for maintaining records relating to wastewater discharge;
- (8) Mean and maximum mass emission rates, or other appropriate limits when incompatible pollutants (as set forth in Article II) are proposed or present in the user's wastewater discharge;
- (9) Other conditions as deemed appropriate by the Board to insure compliance with this Article or other applicable ordinance, law, or regulation;
- (10) A reasonable compliance schedule, not to extend beyond July 1, 1983, or such earlier date as may be required by other applicable law or regulation, whichever is sooner, to insure the Industrial User's compliance with pretreatment requirements or improved methods of operation and maintenance;

- (11) Requirements for the installation of facilities to prevent and control accidental discharge or "spills" at the user's premises.
- (12) Mass limitations where dilution is used to meet applicable pretreatment standards or requirements or in other cases where the imposition of mass limitations are deemed appropriate.

The user shall design any necessary facility, and submit detailed design plans and operating procedures to the City, State, and Federal agencies having jurisdiction. The Board shall review and comment on said plans within forty-five (45) calendar days and recommend to the user any change it deems appropriate. Upon comment by the Board and approval by State and Federal agencies of plans as specified above, the user shall secure such building, electrical, plumbing, or other permits as may be required by applicable Codes and proceed to construct any necessary facility and establish such operating procedures as are required within the time provided in the user's SID permit.

E. Applicant's Notification of Proposed SID Permit Conditions And Objection Procedures

Upon receipt of a draft SID permit the applicant shall have thirty (30) calendar days to review same and file written objections with the Board and the ADEM.

Within fifteen (15) calendar days of receipt of an applicant's request or written objections, the Board may schedule a meeting between itself, the applicant, and the ADEM for the purpose of resolving the disputed SID permit issues.

If an applicant files no written objection to the draft SID permit proposed by the ADEM, or a subsequent agreement is reached concerning the same, issuance of the permit will be in accordance with the Memorandum of Agreement executed between the Board and the ADEM.

F. Permission to Discharge

Issuance of an SID permit by the ADEM shall constitute permission by the Board to discharge into the sewer system, under the terms and conditions as enumerated in the SID permit. All users not required to operate under an SID permit or who currently contribute wastewater other than normal domestic or discharge in excess of 5,000 gpd shall comply with the provisions of Article VI.

G. Compliance Schedule and Reporting Requirements

Compliance with National Categorical Pretreatment Standards for existing sources subject to such standards or for existing sources which hereafter become subject to such standards shall be within three (3) years following promulgation of the standards unless a shorter compliance time is specified in the standard. Compliance with National Categorical Pretreatment Standards for new sources shall be required upon promulgation of the standard. The Board shall attempt to notify in writing any user whom it has cause to believe is subject to a National Categorical Pretreatment Standard upon

promulgation of such Federal regulations, but any failure of the Board in this regard shall not relieve the user of the duty of complying with such National Pretreatment Standards.

The following conditions shall apply to the schedule required by Section B and D of this Article:

- (1) The schedule shall contain increments of progress in the form of calendar dates for the commencement and completion of major leading to the construction and operation of additional pre-treatment requirements for the industrial user to meet the applicable Pretreatment Standards (e.g., hiring an engineer, completing preliminary plans, completing final plans, executing contract for major components, commencing construction, completing construction, etc.).
- (2) No increment referred to in Section G (1) of this Article shall exceed nine (9) months.
- (3) Not later than fourteen (14) days following each date in the schedule and the final date for compliance, the industrial user shall submit a progress report to the Board and the ADEM including, as a minimum, whether or not it complied with the increment of progress to be met on such date and, if not, the date on which it expects to comply with this increment of progress, the reason for the delay, and steps being taken by the industrial user to return the construction to the schedule established. In no event shall more than nine (9) months elapse between such progress reports to the Board and the ADEM.
- (4) Within ninety (90) days following the date for final compliance with applicable Pretreatment Standards or, in the case of a New Source, following commencement of the introduction of wastewater into the POTW, any industrial user subject to Pretreatment Standards and Requirements shall submit to the Board and the ADEM a report indicating the nature and concentration of all pollutants in the discharge from the regulated process which are limited by Pretreatment Standards and Requirements and the average and maximum daily flow for these process units in the industrial user which are limited by such Pretreatment Standards or Requirements. The report shall state whether the applicable Pretreatment Standards or Requirements are being met on consistent basis and, if not, what additional Operation and Maintenance procedure or pretreatment is necessary to bring the industrial user into compliance with the applicable Pretreatment Standards or Requirements. This statement shall be signed by an authorized representative of the industrial user, as defined in Article I and certified by a Professional Engineer registered in the State of Alabama.

- (5) Any industrial user subject to a pretreatment Standard after the compliance date of such Pretreatment Standard, or, in the case of a New Source, after commencement of the discharge into the POTW, shall submit to the Board and the ADEM during the months of June and December, unless required more frequently in the Pretreatment Standard or by the Board and the ADEM, a report indicating the nature and concentration of pollutants in the effluent which are limited by such Pretreatment Standards. In addition, this report shall include a record of all daily flows which during the reporting period exceeded the average daily flow reported in Section B (4) of this Article. At the Discretion of the Board or the ADEM, as applicable, and in consideration of such factors as local high or low flow rates, holidays, budget cycles, etc., the Board or the ADEM, as applicable, may agree to alter the months during which the above reports are to be submitted.

If mass limitations have been imposed on the industrial user's discharge, the report required by subparagraph (a) of this paragraph shall indicate the mass of pollutants regulated by Pretreatment Standards in the effluent of the industrial user.

- (6) The frequency of monitoring effluent discharge shall be prescribed by the applicable pretreatment standard. All analyses shall be performed in accordance with procedures established by the Environmental Protection Agency under the provisions of Section 304 (h) of the Act (33 U. S. C. 1314 (h)) and contained in 40 CFR Part 136 and amendments thereto or with any other test procedures approved by the Environmental Protection Agency. Sampling shall be performed in accordance with the techniques approved by the Environmental Protection Agency.

H. Maintenance of Records

Any industrial user subject to the reporting requirements established in this Article shall maintain records of all information resulting from any monitoring activities required by this article. Such records shall include for all samples:

- (1) The date, exact place, method, and time of sampling and the names of the persons taking the samples;
- (2) The dates analyses were performed;
- (3) Who performed the analyses;
- (4) The analytical techniques/methods used; and
- (5) The results of such analyses;

I. Retention of Records

Any industrial user subject to the reporting requirement established in this Article shall be required to retain for a minimum of five (5) years any records of monitoring activities and results (whether or

for inspection and copying by the Board, the ADEM, of the EPA. This period of retention shall be extended during the course of any unresolved litigation regarding the industrial user or when requested by the Board, the ADEM, or the Environmental Protection Agency.

J. Confidentiality

Any records, reports, or information obtained in accordance with this Ordinance are intended to be used to determine applicable effluent limitations, toxic conditions, pretreatment requirements, or permit conditions and shall be available to the public except that upon a showing satisfactory to the Board and ADEM by any person, records, reports, or information, or particular part thereof (other than effluent data) to which the Board and ADEM access to under this Article, if made public would divulge methods or processes entitled to protection as trade secrets of such person, the Board and ADEM shall consider such record, report, or information, or particular portion thereof confidential in accordance with the purposes of this Article, except that such record, report, or information may be disclosed to officers, employees, or authorized representatives of the State of Alabama or the United States concerned with carrying out the provisions of the Clean Water Act or when relevant in any proceeding under this Ordinance or other applicable laws.

K. Duration of Permits

SID permits shall be issued for a period of five (5) years, provided that original permits may be issued for a period between three (3) and five (5) years for the administrative convenience of the AWIC so as to stagger the renewal dates of the permits. Notwithstanding the foregoing, users becoming subject to a National Pretreatment Standard shall apply for new permits on the effective date of such National Pretreatment Standards.

L. Permit Renewal

A user must apply in writing to the Board and ADEM for a renewal permit within the period of time not more than ninety (90) days and not less than thirty (30) days prior to expiration of the current permit.

M. Permit Modifications

- (1) Limitations or conditions of a permit are subject to modification or change as such changes may become necessary due to changes in applicable water quality standards, changes in the Board's NPDES permit, changes in Article II, changes in other applicable law or regulation, or for other just cause. Any proposed change or new condition in a permit shall include a provision for a reasonable time schedule for compliance and shall be made known to the use.


Upon receipt of the draft modification, the user shall have thirty (30) calendar days to review same and file written objections with the Board and ADEM.

Within fifteen (15) calendar days of receipt of a user's request or written objection, the Board may schedule a meeting between itself, the applicant and the ADEM for the purpose of resolving the disputed SID permit change.

If a user files no written objection to the draft modification, or a subsequent agreement is reached concerning the same, the ADEM shall incorporate said modification into the user's SID permit in accordance with the Memorandum of Agreement between the Board and the ADEM.

- (2) Any significant change in the nature or volume of the wastewater constituents of a permitted user shall be reported to the City and may require the user to be subject to a modified SID permit.

N. Transfer of a Permit



SID permits are issued to a specific user for specific operation. An SID permit shall not be reassigned or transferred or sold to a new owner, new user, or for different premises.

ARTICLE V - INSPECTIONS, MONITORING, AND ENTRY

A. General

The Board and/or ADEM shall require any non-domestic primary or significant industrial user, as defined by the ADEM, to establish and maintain such records, make such reports, install, use, and maintain such monitoring equipment or methods (including where appropriate) biological monitoring methods, sample such effluents (in accordance with such methods, at such intervals, and in such manner as the Board and ADEM shall prescribe), and provide such other information as they may reasonably require.

Further, the Board, its representatives, the ADEM and the EPA shall have a right of entry to all properties for purposes of inspection, observation, measurement, sampling and testing in accordance with the provisions of this ordinance and may at reasonable times have access to and copy any records, inspect any monitoring equipment or method required above, and sample any effluents which the owner or operator is required to sample under Article IV. Failure to permit entry in accordance with the above conditions shall constitute a misdemeanor punishable as provided in the Code of the City of Demopolis.

B. Monitoring Facilities

Industrial wastewater disposal connections, where pretreatment is required by the Board to satisfactorily carry out its inspection and monitoring responsibilities, may be required to have a control manhole or equivalent with a Board approved automatic flow proportional refrigerated sampler and flow measuring device with continuous recorder and totalizer. Such a facility will be required to enable observation, measurement and sampling of all waste discharged to the POTW. Such control facility shall be constructed at such location and in such a manner as may be directed by the Board. Such a facility shall be installed by the industrial user discharging to the POTW without cost to the Board. The Board shall arrange for maintenance of the facility, collect the samples and be responsible for testing of samples. The Board in a manner to be prescribed, shall be reimbursed by the user for any expense incurred in the above mentioned maintenance sampling, testing and any other related expenses required to make such facility safe, accessible, and in proper operating conditions.

C. Responsibility

While performing the necessary work on private properties as indicated above, the Superintendent or duly authorized employees of the Board shall observe all safety rules applicable to the premises established by the company.

The Superintendent and other duly authorized employees of the Board bearing proper credentials and identification shall be permitted to enter all private properties through which the Board holds a duly negotiated easement for the purposes of, but not limited to, inspection, observation, measurement, sampling, repair, and maintenance of any portion of the sewage works lying within said easement. All entry and subsequent work, if any, on said easement, shall be done in full accordance with the terms of the duly negotiated easement pertaining to the private property involved.

ARTICLE VI - SANITARY SEWER DISCHARGE PERMIT

A. Application for Existing Users

All users who currently contribute wastewater other than normal domestic sewage, a discharge volume greater than 5,000 gallons per day, and not requires to operate under an SID permit shall be placed on file with a discharge permit, a copy of which is retained by the user.

B. Application for New Users

All new users who wish to contribute wastewater other than normal domestic sewage, a discharge volume greater than 5,000 gallons per day, and not required to operate under an SID permit shall submit a Sanitary Sewer Discharge Permit Application for the purpose of connecting the facility to the POTW.

C. Applicant's Notification of Proposed Sanitary Sewer Discharge Permit; Objection Procedures

Upon completion of its evaluation, the Board shall issue or deny a Sanitary Sewer Discharge Permit within thirty (30) calendar days of receipt of the application.

(1) If denied, written notice shall be provided which specifies the reasons for denial.

(a) Said Notice shall also set a time and place for a Hearing, not to exceed fourteen (14) calendar days from date of service of the Notice. At said Hearing, applicant may appear and be afforded a full opportunity to be heard.

(b) The Hearing shall be conducted by the Sewer Superintendent at a date and a time as specified in the Notice. At said Hearing, user shall be allowed to be represented by anyone of his choosing, user shall also have the right to produce any evidence he deems relevant. The Sewer Superintendent shall hear such other evidence as he deems relevant to the issues. The Sewer Superintendent shall make a written decision within ten (10) days from the date of said Hearing. Written notice of said decision shall be served on the user or his designated representative within ten (10) days from the date of the decision. Said decision shall set forth what action the Board will take and the reasons therefor.

(c) Any applicant, aggrieved by the decision of the Sewer Superintendent, shall have the right to appeal to the Council of the City of Demopolis. The Appeal must be filed by the user, with the City Clerk, within ten (10) days from the date of service of the Sewer Superintendent's decision made on the user. Said Appeal shall be in writing. The timely filing of the Appeal by the user shall stay the decision of the Sewer Superintendent, no action shall be taken on the Sewer Superintendent's decision, and the Appeal to the Council shall be de novo. However, the Appeal shall not stay any civil or criminal action initiated by the Board against the user. The City Clerk shall set the Appeal for a Public Hearing before the Council of the City of Demopolis. Said Hearing shall be held no later than ten (10) days from the date of the filing of the Appeal with the City Clerk. At said Public Hearing, the user may appear and shall be provided an opportunity to be heard. The Council of the City of Demopolis may require the Sewer Superintendent or any other employee of the Board to also appear and be heard by the Council. The Council of the City of Demopolis shall render a decision by Resolution within ten (10) days from the date of said Hearing before the Council. A certified copy of said Resolution shall be served on the user within ten (10) days from the date of the decision by the Council.

(2) If the permit is issued and applicant objects to the permit's conditions, applicant may object through the procedures enumerated above in Sections C (1) (a) through (c).

D. Reporting Requirements

Any significant change in the nature or volume of the wastewater constituents of a permitted user shall be reported to the City in a timely fashion and may require the user to apply for revised Sanitary Sewer Discharge Permit.

E. Duration of Permits

Sewer System Discharge Permits shall be issued for an indefinite time period provided all requirements of this Ordinance continue to be met.

F. Transfer of Permit

Sewer System Discharge Permits are issued to a specific user for a specific operation. A sewer System Discharge Permit shall not be sold, reassigned, or transferred to a new owner, new user, or for different premises.

ARTICLE VII - DETERMINATION OF WASTEWATER VOLUME

Unless otherwise provided, the volume of wastewater delivered to the POTW will be considered the same as the quantity of water purchased from and metered by the Board. If the volume of water delivered to the POTW is greater or less than the volume of water purchased from the Board, the user shall make known to the Board such differences. If differences do exist, it shall be the obligation of the user to install Board-approved meters or other devices to determine the portion of quantity of wastewater delivered to the POTW.

The Board may consider establishing a constant ratio, factor, or percentage to be applied to the metered water quantity delivered by the water system in order to determine the waste delivered by the industry. Determining as well as justifying the factor to the City will be the responsibility of the user. The value of this factor may be periodically reviewed for accuracy by the Board.

ARTICLE VIII - FEES, CHARGES, PENALTIES

A. User Charges

User charges shall be a monthly charge for sanitary sewer service to each establishment that is served by a water meter connected to the water system, or which discharges into the sanitary sewer system water received from a source other than the water system. Such charge shall be based on the quantity of the consumption of water as follows, subject to the maximum rates and surcharges provided for in this Article, and shall be at the rate of one dollar (\$1.00) per 1000 gallons of water discharge into the sanitary sewer system or metered water from the water system, whichever case may apply.

B. Industrial Waste Surcharge Elements

An industrial waste surcharge may be assessed against any industry in the Board service area whose wastewater characteristics exceed the following normal wastewater strengths:

BOD	300 ppm
Suspended Solids (SS)	200 ppm
Grease (animal and vegetable fats and oils)	100 ppm
Oil and Grease (mineral)	100 ppm

At the discretion of the Board and at such times when data has been compiled and established, additional or modified surcharge elements shall be imposed. Such surcharges shall be based upon the higher cost of treatment of the pollutant. These surcharges are as follows:

BOD	- fifteen cents (.15)	per pound of excess over 300 ppm.
Soluble BOD	- fifteen cents (.15)	per pound of excess over 165 ppm.
Suspended Solids	- two cents (.02)	" " " " " 200 ppm.
Oil and Grease	- fifteen cents (.15)	" " " " " 100 ppm.

The Superintendent may designate other constituents for which a surcharge is to be levied and the maximum concentration for those constituents. The amount of this surcharge and the maximum concentration shall be set by Resolution by the Board.

ARTICLE VIII - FEES, CHARGES, PENALTIES

A. User Charges

User charges shall be a monthly charge for sanitary sewer service to each establishment that is served by a water meter connected to the water system, or which discharges into the sanitary sewer system water received from a source other than the water system. Such charge shall be based on the quantity of the consumption of water as follows, subject to the maximum rates and surcharges provided for in this Article, and shall be at the rate of one dollar (\$1.00) per 1000 gallons of water discharge into the sanitary sewer system or metered water from the water system, whichever case may apply.

B. Industrial Waste Surcharge Elements

An industrial waste surcharge may be assessed against any industry in the Board service area whose wastewater characteristics exceed the following normal wastewater strengths:

BOD	300 ppm
Suspended Solids (SS)	200 ppm
Grease (animal and vegetable fats and oils)	100 ppm
Oil and Grease (mineral)	100 ppm

At the discretion of the Board and at such times when data has been compiled and established, additional or modified surcharge elements shall be imposed. Such surcharges shall be based upon the higher cost of treatment of the pollutant. These surcharges are as follows:

BOD	- fifteen cents (.15)	per pound of excess over 300 ppm.
Soluble BOD	- fifteen cents (.15)	per pound of excess over 165 ppm.
Suspended Solids	- two cents (.02)	" " " " " 200 ppm.
Oil and Grease	- fifteen cents (.15)	" " " " " 100 ppm.

The Superintendent may designate other constituents for which a surcharge is to be levied and the maximum concentration for those constituents. The amount of this surcharge and the maximum concentration shall be set by Resolution by the Board.

AMENDMENT OF SEWER USE REGULATION AND PRETREATMENT
ORDINANCE

Be it hereby ordained by the City Council of the City of Demopolis,
Alabama, as follows:

Whereas, the Waterworks and Sewer Board of the City of
Demopolis has been cautioned by the Alabama Department of Environmental
Management to reduce the pollutants in its waste water program to the
highest extent possible; and Whereas, the cost of monitoring, testing
and treatment of such pollutants to accomplish such purpose as
greatly increased, therefore, the Sewer Use Regulation and Pretreatment
Ordinance of the City of Demopolis dated February 14, 1983, and
revised on July 21, 1983, is hereby amended as follows:

Paragraphs A (User Charges) and B (Industrial Waste Surcharge
Elements) of Article VIII Fees, Charges, Penalties) are hereby
deleted and the following Paragraphs A and B are substituted in
their place:

ARTICLE VIII-FEES, CHARGES, PENALTIES

A. USER CHARGES

User charges shall be a monthly charge for sanitary sewer service to each
establishment that is served by a water meter connected to the water system,
or which discharges into the sanitary sewer system water received from a
source other than the water system. Such charge shall be based on the quantity
of the consumption of the water as follows, subject to the maximum rates
and surcharges provided for in this Article, and shall be at the rate of _____
per 1000 gallons of water discharged into the sanitary sewer
system or metered water from the water system, whichever case may apply.

Rate
AS
of

B. Industrial Waste Surcharge Elements

An industrial waste surcharge may be assessed against any industry in
the Board service area whose wastewater characteristics exceed the following
normal wastewater strengths:

12/1/02
2.46
per
Thousand

Soluble BOD	110 ppm.
BOD	200 ppm
Suspended Solids (SS)	100 ppm
Grease (animal and vegetable fats & oils)	50 ppm
Oil and Grease (mineral)	50 ppm

At the discretion of the Board and at such times when data has been compiled
and established, additional or modified surcharge elements shall be imposed.
Such surcharges shall be based upon the higher cost of treatment of the
pollutant. These surcharges are as follows:

BOD - twenty-three cents (.23) per pound of excess over 200 ppm
Soluble BOD - twenty-three cents (.23) per pound of excess over 110 ppm
Suspended Solids - ~~Eighteen cents (.18)~~ per pound of excess over 100 ppm
Oil and Grease - twenty-five cents (.25) per pound of excess over 50 ppm
Grease - twenty-five cents (.25) per pound of excess over 50 ppm

The Superintendent may designate other constituents for which a surcharge
is to be levied and the maximum concentration for those constituents. The
amount of this surcharge and the maximum concentration shall be set by
Resolution by the Board.

Surcharges for excessive strength waste shall be determined by subtracting
the allowable limit for the particular parameter from the actual concentration
of the parameter as determined by the Board. The difference in the
concentrations shall be multiplied by the surcharge rate for the parameter
as established by the Board.

151 LEGALS

ORDINANCE 1999-8
AN ORDINANCE TO
AMEND THE EXIST-
ING SEWER US-
REGULATION AND
PRETREATMENT
ORDINANCE, PARA-
GRAPH B (INDUS-
TRIAL WASTE
SURCHARGE ELE-
MENTS) OF ARTI-
CLE VIII-FEES,
CHARGES, PENAL-
TIES.

BE IT RESOLVED BY
THE MAYOR AND
CITY COUNCIL OF
THE CITY OF DEMO-
POLIS, ALABAMA
AS FOLLOWS:

Suspended Solid:
\$0.18 PER POUND OF
EXCESS OVER 100
PPM

(A copy of said Ordinance
is available for inspec-
tion at the Demopolis
City Hall.)

This ordinance was
adopted by the Demo-
polis City Council at its
regularly scheduled
meeting on Thursday,
July 1, 1999. It shall
become effective upon
its approval by the
Mayor and City Coun-
cil and its proper publi-
cation as required by
law.

7/7/99

C. Industrial Cost Recovery

All industrial and some commercial users may be subject to the industrial cost recovery (ICR) requirement of Public Law 92-500. The ICR requirements applies to those industrial and included commercial users who discharge to a grant-funded facility. ICR fees shall be assessed in accordance with applicable federal guidelines.

D. Holding Tank Discharges

All persons owning vacuum or "cess pool" pump trucks or other liquid waste transport trucks shall not discharge directly or indirectly wastewater into the POTW unless such person shall first have applied for and received a Mobile Discharge Operation Permit from the Water and Sewer Department. All applicants for a Mobile Discharge Operation Permit shall complete such forms as required by the Board, pay appropriate fees, and agree in writing to abide by the provisions of this Article and any special conditions or regulations established by the Board. Such permits shall be valid for a period of one (1) year from date of issuance, provided that such permit shall be subject to revocation by the Board for violation of any provision of this Article or reasonable regulation established by the Board. Such permits shall be limited to the discharge of wastewater which has none of the prohibited wastes enumerated in Article II. The Board shall designate the locations and times where such trucks may be discharged, and may refuse to accept any truck-load of waste in the absolute discretion where it appears that the waste could interfere with the effective operation of the POTW.

No person shall discharge any other holding tank waste into the POTW unless he shall have applied for and have been issued a permit by the Board. Such user shall pay any applicable charges or fees therefor, and shall comply with the conditions of the permit issued by the Board. However, no permit will be required to discharge domestic waste from recreational vehicle holding tank provided such discharge is made into an approved facility designed to receive such waste.

Septic tank waste shall be discharged to the POTW only at the designated manholes located at the Wastewater Treatment Plant.

E. Miscellaneous Fees

E.1 Purpose

It is the purpose of this section to provide for the recovery of costs from the users of the Board wastewater disposal system for the implementation of the program established herein. The applicable charges or fees shall set forth in the Board Schedule of Charges and Fees.

E.2 Charges and Fees

The Superintendent may establish charges and fees when necessary which may include:

- (1) Fees for reimbursement of costs of setting up and operating the Board's Pretreatment Program.
- (2) Fees for monitoring, inspections, and surveillance procedures;
- (3) Fees for reviewing accidental discharge procedures and construction;
- (4) Fees for Mobile Discharge Operations Permit;
- (5) Fees for Permit applications;
- (6) Fees for Permit renewal;
- (7) Fees for filing appeals;
- (8) Other fees as the City may deem necessary to carry out the requirements contained herein.

These fees relate solely to the matters covered by this Ordinance and are separate from all other fees chargeable by the Board.

- F. The Board shall if necessary raise or lower sewer and water rates by Resolution; provided justification is present to alter said rates.

ARTICLE IX - GENERAL PROVISIONS

A. Damage to POTW

No unauthorized person shall maliciously, willfully, or negligently break, damage, destroy, uncover, deface, or tamper with any portion of the POTW. Any person violating the provisions shall be guilty of a misdemeanor punishable pursuant to the Code of the City of Demopolis, subject to immediate arrest under charge of disorderly conduct, (Affrays, a misdemeanor).

B. Validity

All resolutions, ordinances, parts of resolutions, or parts of ordinance in conflict herewith are hereby repealed.

C. Severability

If any provisions, paragraph, word, section, or article of this Ordinance is invalidated by any court of competent jurisdictions, the remaining provisions, paragraphs, words, sections, and chapters shall not be affected and shall continue in full force and effect.

D. Non-Contractuality

Neither this ordinance nor any permission or approval granted hereunder shall be considered or construed as a contract by the Board and any person. The Board hereby expressly reserves the right to amend, change, or repeal this Ordinance at any time.

E. Exceeding Capacity of POTW

If the service applied for cannot be furnished in accordance with City, State, and Federal rules and regulations and if the designed sewerage system capacity is exceeded, there shall be no liability of/ or by the Board to the applicant for such services.

The Board may, at its discretion, investigate expansion to its POTW for the express purpose of satisfying the needs of a new customer or the increased capacity requirements of an existing customer. Appropriate cost assessed to the customer would be determined by the Board covering arrangements for such service.

F. Remoteness to Existing Interceptor

The Board may deny and not be liable for service to a new customer if the customer's point of discharge will be at a distance considered to be prohibitive by the Board for connection to the closest sizeable Board sewer interceptor. Extension of such interceptor may be arranged, if technically feasible, at a cost to the customer unless public funding is available to defray part of such cost and the time element is acceptable.

G. Industries and Commercial Users Outside Corporate Limits

The Board as lead Agency within this planning area shall receive and adequately treat wastewaters from all industrial and commercial establishments furnished with sanitary sewers in accordance with all provisions of this Ordinance with no increase in charges for these services.

H. Inspection of Connections

No industrial or commercial sewer service with or without a control and/or inspection manhole shall be connected until the plumbing and connections incident thereto shall have been inspected and approved by the appropriate City Agency. The sewer service connection shall be inspected and approved by the Agency Inspector before any underground portion of the sewer service is covered.

I. Interruption of Service

The Board shall not be liable for any damage resulting from failure of any sewer main, service piped, or valve, or by discontinuing the operation of its wastewater collection, treatment and sewerage facilities for repair, extensions; or connections or from the accidental failure of the wastewater collection system, or treatment and disposal facilities or from any cause whatsoever. In cases of emergency the Board shall have the right to restrict the use of its wastewater collection, treatment, and disposal facilities in any reasonable manner for the protection of the Board and its sewerage system.

J. Discontinuance of Service-Refusal to Connect Service

The Board shall, after written notice, have the right to discontinue service or to refuse to render service for a violation of, or a failure to comply with these rules and regulations, or to revoke a permit for service, or for the nonpayment of any obligation due to the Board's sewerage system. Discontinuance of service by the Board for any causes stated in these rules and regulations shall not release the customer from liability for service already received or from liability for payments that thereafter become due under the billing provisions or other provisions of the customer's agreement. The Board shall have the right to refuse to render service to any applicant whenever the applicant or any member of the industry, company or firm to which service is to be furnished, is in default in the payment of any obligation to the Board or has heretofore had his service disconnected because of a violation of the rules and regulations of this Ordinance.

K. Use and Maintenance of Sewer Laterals

Sewer laterals that have been previously used but have been

abandoned due to the razing of building structure may be used in connection with new buildings only when they are found, on examination and test by the Agency to meet all requirements of this ordinance. All others must be sealed to the satisfaction of the Agency. Each individual, commercial or industrial user of the sewerage facilities of the Board shall be entirely responsible for the maintenance of the sewer lateral which extends from the sewer mains of the Board to the private lateral which extends from the sewer mains of the Board to the private premises.

L. Grease, Oil Interceptors (Traps)

Grease, oil, and sand interceptors shall be provided when in the opinion of the Superintendent they are necessary for the proper handling of liquid wastes containing grease in excessive amounts, or any flammable wastes, sand, or other harmful ingredients; except that such interceptors shall not be required for private living quarters or dwelling units. All interceptors shall be of a type and capacity approved by the Superintendent, and shall be located as to be readily and easily accessible for cleaning and inspection.

M. Control Manhole

When required by the Superintendent, the owner of any property serviced by a building sewer carrying industrial wastes shall install a suitable control manhole together with such necessary meters and other appurtenances in the building sewer to facilitate observation, sampling, and measurement of the wastes. Such manhole, when required, shall be accessibly and safely located, and shall be constructed in accordance with plans approved by the Superintendent. The manhole shall be installed by the owner at his expense, and shall be maintained by him so as to be safe and accessible at all times.

N. Tests by Standard Methods

All measurements, tests, and analyses of the characteristics of waters and wastes to which reference is made in this ordinance shall be determined in accordance with the latest edition of "Standard Methods for the Examination of Water and Wastewater", published by the American Public Health Association, or by approved EPA procedures, and shall be determined at the control manhole provided, or upon suitable samples taken at said control manhole. In the event that no special manhole has been required, the control manhole shall be considered to be the nearest downstream manhole in the public sewer to the point at which the building sewer is connected. Sampling shall be carried out by customarily accepted methods to reflect the effect of constituents upon the sewer works and to determine the existence of hazards of life, limb, and property.

(The particular analyses involved will determine whether a twenty-four (24) hour composite of all outfalls of a premise is appropriate or whether a grab sample or samples should be taken. Normally, but not always, BOD and suspended solids analyses are obtained from 24 hour composites of all outfalls whereas pH's are determined from periodic grab samples.)

ARTICLE X - DOMESTIC SEWAGE PROVISIONS

A. Use of Public Sewers Required

- (1) It shall be unlawful for any person to place, deposit, or permit to be deposited in any unsanitary manner on public or private property within the City of Demopolis or in any area under the jurisdiction of said City, any human or animal excrement, garbage, or other objectionable waste.
- (2) It shall be unlawful to discharge to any natural outlet within the City of Demopolis, or in any area under the jurisdiction of said City, any sewage or other polluted waters, except where suitable treatment has been provided in accordance with subsequent provisions of this Ordinance.
- (3) Except as hereinafter provided, it shall be unlawful to construct or maintain any privy, privy vault, septic tank, cess pool, or other facility intended or used for the disposal of sewage.
- (4) The owner of all houses, buildings, or properties used for human occupancy, employment, recreation, or other purposes, situated within the City and abutting on any street, alley, or right-of-way in which there is now located or may in the future be located a public sanitary or combined sewer of the Board, is hereby required at his expense to install suitable toilet facilities therein, and to connect such facilities directly with the proper public sewer in accordance with the provisions of this Ordinance, within ninety (90) days after date of official notice to do so, provided that said public sewer is within one hundred (100) feet of the property line.

B. Private Sewage Disposal

~~The disposal of sewage by means other than the use of the available~~

- (2) There shall be two (2) classes of building sewer permits:
(a) for residential and commercial service, and (b) for service to establishments producing industrial wastes.
In either case, the owner or his agent shall make application on a special form furnished by the Board.
The permit application shall be supplemented by any plans specifications, or other information considered pertinent in the judgment of the Superintendent. A permit and inspection fee of seventy five dollars (\$75) for residential or commercial building sewer permit shall be paid to the Board at the time the application is filed.
- (3) All costs and expense incident to the installation and connection of the building sewer shall be borne by the owner. The owner shall indemnify the Board from any loss or damage that may directly or indirectly be occasioned by the installation of the building sewer.
- (4) A separate and independent building sewer shall be provided for every building; except where one building stands at the rear of another on an interior lot and no private sewer is available or can be constructed to the rear building through an adjoining alley, court, yard, or driveway, the building sewer from the front building may be extended to the rear building and the whole considered as one building sewer.
- (5) Old building sewers may be used in connection with new buildings only when they are found. on examination and test by the Superintendent, to meet all requirements of this Ordinance.
- (6) The size, slope, alignment, materials of construction of a building sewer, and the methods to be used in excavating, placing of the pipe, jointing, testing, and backfilling the trench, shall all conform to the requirements of the building and plumbing code or other applicable rules and regulations of the Baord. In the absence of code provisions or in amplification thereof, the materials and procedures set forth in appropriate specifications of the ASTM and WPCF Manual of Practice No. 9 shall apply.
- (7) Whenever possible, the building sewer shall be brought to the building at an elevation below the basement floor. In all buildings in which any building drain is too low to permit gravity flow to the public sewer, sanitary sewage carried by such building drain shall be lifted by an approved means and discharge to the building sewer.
- (8) No person shall make connection of roof downspouts, exterior foundation drains, areaway drains, or other sources of surface run-off or groundwater to a building sewer or building drain which in turn is connected directly or indirectly to a public sanitary sewer.

- (9) The connection of the building sewer into the public sewer shall conform to the requirements of the building and plumbing code or other applicable rules and regulations of the Board, or the procedures set forth in appropriate specifications of the ASTM and the WPCF Manual of Practice No. 9. All such connections shall be made gastight and watertight. Any deviation from the prescribed procedures and materials must be approved by the Superintendent before installation.
- (10) The applicant for the building sewer permit shall notify the Superintendent when the building sewer is ready for inspection and connection to the public sewer. The connection shall be made under the supervision of the Superintendent or his representative.
- (11) All excavations for building sewer installation shall be adequately guarded with barricades and lights so as to protect the public from hazard. Streets, sidewalks, parkways, and other public property disturbed in the course of the work shall be restored in a manner satisfactory to the City.

D. Use of the Public Sewers

Use of the public sewers is restricted to the handling of domestic sewage only. Restrictions for non-sewage neutral waters are listed under Article II, B (storm waters, yard waters, etc.), and general restrictions are listed under Article II.A.

ARTICLE XI - EXCEPTIONS

A. pH

Article II.A (2) prohibits entry into the City sewer system of wastes having a pH above 9.0 . However, if the waste is to be conducted by an industrial interceptor directly into the POTW plant which was designed to accept and treat wastes of very high pH, then it is the option of the Board to consider such application for service and make arrangements for the proper permit covering such installation and service.

B. Temperature

Article II.A (5) prohibits entry into the City sewer system of wastes having a temperature above 104°F. However, if arrangements are made to provide an industrial interceptor directly to the POTW plant for such wastes above 104°F., the Board has the option to consider such application for service and allow the issuance of the proper permit subject to other agency restrictions.

ARTICLE XII - ORDINANCE IN FORCE

A. Date Effective

This Ordinance shall be in full force and effect on the date of passage, July 21, 1983.

B. Date Adopted

Passed and adopted by the Council of the City of Demopolis, State of Alabama on the 21st day of July, 1983, by the following vote:

Ayes 6 : namely E. O. Eddins

Stewart Reynolds

Tom Boggs

Alfred Black

Charles Foreman

Hugh Allen

Nays None : namely _____

Approved this 21st day of July, 1983

(Signed) Hugh Allen, Mayor

Attest :

(signed) Dalley S. Ward, Clerk

ARTICLE XII - ORDINANCE IN FORCE

A. Amended for Correction

This Ordinance is an Amendment to the Ordinance approved by the Demopolis City Council on February 12, 1979 to comply with and include in the final Ordinance the corrections requested by AWIC in communication dated April 15, 1982 and delivered to ADEM under cover letter dated February 8, 1982 and subsequently accepted by ADEM by its letter dated _____ to the Demopolis Water Works and Sewer Board.

B. Date Effective

This modified Ordinance shall be in full force and effective on the date of passage, July 21, 1983 with ADEM requested corrections.

C. Date Adopted

Passed and adopted by the Council of the City of Demopolis, State of Alabama on the 21st day of July, 1983, by the following vote:

Ayes	<u>6</u>	:	namely	<u>E. O. Eddins</u>
				<u>Stewart Reynolds</u>
				<u>Tom Boggs</u>
				<u>Alfred Black</u>
				<u>Charles Foreman</u>
				<u>Hugh Allen</u>

Nays	<u>None</u>	:	namely	_____

Approved this 21st day of July, 1983.

(Signed) Hugh Allen (Mayor)

Attest:

(Signed) Dolly L. Ward (Clerk)

Councilmen:

Alfred Black
Alfred Black

Thomas Boggs
Thomas Boggs

E. O. Eddins
E. O. Eddins

Charles Foreman
Charles Foreman

Stewart Reynolds
Stewart Reynolds

FACILITY NAME AND PERMIT NUMBER:

Demopolis WWTP; AL0043168

FEB 18 2010

Form Approved 1/14/89
OMB Number 2040-0088

SUPPLEMENTAL APPLICATION INFORMATION

NPDES Permit Branch

PART D. EXPANDED EFFLUENT TESTING DATA

Refer to the directions on the cover page to determine whether this section applies to the treatment works.

Effluent Testing: 1.0 mgd and Pretreatment Treatment Works. If the treatment works has a design flow greater than or equal to 1.0 mgd or it has (or is required to have) a pretreatment program, or is otherwise required by the permitting authority to provide the data, then provide effluent testing data for the following pollutants. Provide the indicated effluent testing information and any other information required by the permitting authority for each outfall through which effluent is discharged. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analyses conducted using 40 CFR Part 136 methods. In addition, these data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. Indicate in the blank rows provided below any data you may have on pollutants not specifically listed in this form. At a minimum, effluent testing data must be based on at least three pollutant scans and must be no more than four and one-half years old.

Outfall number: 001 with leachate (Complete once for each outfall discharging effluent to waters of the United States.)

POLLUTANT	MAXIMUM DAILY DISCHARGE				AVERAGE DAILY DISCHARGE					ANALYTICAL METHOD	ML/MDL
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples		
METALS (TOTAL RECOVERABLE), CYANIDE, PHENOLS, AND HARDNESS.											
ANTIMONY	<0.005	mg/l	<0.11	lbs./day	<0.005	mg/l	<0.08	lbs./day	1	E200.7	0.005
ARSENIC	<0.010	mg/l	<0.22	lbs./day	<0.010	mg/l	<0.16	lbs./day	1	E200.7	0.010
BERYLLIUM	<0.001	mg/l	<0.02	lbs./day	<0.001	mg/l	<0.02	lbs./day	1	E200.7	0.001
CADMIUM	<0.001	mg/l	<0.02	lbs./day	<0.001	mg/l	<0.02	lbs./day	1	E200.7	0.001
CHROMIUM	<0.050	mg/l	<1.10	lbs./day	<0.050	mg/l	<0.81	lbs./day	1	E200.7	0.050
COPPER	<0.050	mg/l	<1.10	lbs./day	<0.050	mg/l	<0.81	lbs./day	1	E200.7	0.050
LEAD	<0.005	mg/l	<0.11	lbs./day	<0.005	mg/l	<0.08	lbs./day	1	E200.7	0.005
MERCURY	<0.0010	mg/l	<0.02	lbs./day	<0.0010	mg/l	<0.02	lbs./day	1	SW7470	0.0010
NICKEL	<0.050	mg/l	<1.10	lbs./day	<0.050	mg/l	<0.81	lbs./day	1	E200.7	0.050
SELENIUM	<0.010	mg/l	<0.22	lbs./day	<0.010	mg/l	<0.16	lbs./day	1	E270.2	0.010
SILVER	<0.050	mg/l	<1.10	lbs./day	<0.050	mg/l	<0.81	lbs./day	1	E200.7	0.050
THALLIUM	<0.001	mg/l	<0.02	lbs./day	<0.001	mg/l	<0.02	lbs./day	1	E200.9	0.001
ZINC	<0.050	mg/l	<1.10	lbs./day	<0.050	mg/l	<0.81	lbs./day	1	E200.7	0.050
CYANIDE	<0.010	mg/l	<0.22	lbs./day	<0.010	mg/l	<0.16	lbs./day	1	M4500-CN CE	0.010
TOTAL PHENOLIC COMPOUNDS	<0.10	mg/l	<2.21	lbs./day	<0.10	mg/l	<1.62	lbs./day	1	M510 AC	0.10
HARDNESS (AS CaCO ₃)	203	mg/l	4486.5	lbs./day	203	mg/l	3294.6	lbs./day	1	M2340 B	1.0
Use this space (or a separate sheet) to provide information on other metals requested by the permit writer.											

FACILITY NAME AND PERMIT NUMBER:

Demopolis WWTP; AL0043168

Form Approved 1/14/99
OMB Number 2040-0086Outfall number: 001 with leacha (Complete once for each outfall discharging effluent to waters of the United States.)

POLLUTANT	MAXIMUM DAILY DISCHARGE				AVERAGE DAILY DISCHARGE					ANALYTICAL METHOD	ML/ MDL
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples		
VOLATILE ORGANIC COMPOUNDS.											
ACROLEIN	<0.100	mg/l	<2.21	lbs./day	<0.100	mg/l	<1.62	lbs./day	1	SW8260B	0.100
ACRYLONITRILE	<0.100	mg/l	<2.21	lbs./day	<0.100	mg/l	<1.62	lbs./day	1	SW8260B	0.100
BENZENE	<0.005	mg/l	<0.11	lbs./day	<0.005	mg/l	<0.08	lbs./day	1	SW8260B	0.005
BROMOFORM	<0.005	mg/l	<0.11	lbs./day	<0.005	mg/l	<0.08	lbs./day	1	SW8260B	0.005
CARBON TETRACHLORIDE	<0.005	mg/l	<0.11	lbs./day	<0.005	mg/l	<0.08	lbs./day	1	SW8260B	0.005
CLOROBENZENE	<0.005	mg/l	<0.11	lbs./day	<0.005	mg/l	<0.08	lbs./day	1	SW8260B	0.005
CHLORODIBROMO-METHANE	<0.005	mg/l	<0.11	lbs./day	<0.005	mg/l	<0.08	lbs./day	1	SW8260B	0.005
CHLOROETHANE	<0.010	mg/l	<0.22	lbs./day	<0.010	mg/l	<0.16	lbs./day	1	SW8260B	0.010
2-CHLORO-ETHYL VINYL ETHER	<0.010	mg/l	<0.22	lbs./day	<0.010	mg/l	<0.16	lbs./day	1	SW8260B	0.010
CHLOROFORM	<0.005	mg/l	<0.11	lbs./day	<0.005	mg/l	<0.08	lbs./day	1	SW8260B	0.005
DICHLOROBROMO-METHANE	<0.005	mg/l	<0.11	lbs./day	<0.005	mg/l	<0.08	lbs./day	1	SW8260B	0.005
1,1-DICHLOROETHANE	<0.005	mg/l	<0.11	lbs./day	<0.005	mg/l	<0.08	lbs./day	1	SW8260B	0.005
1,2-DICHLOROETHANE	<0.005	mg/l	<0.11	lbs./day	<0.005	mg/l	<0.08	lbs./day	1	SW8260B	0.005
TRANS-1,2-DICHLORO-ETHYLENE	<0.005	mg/l	<0.11	lbs./day	<0.005	mg/l	<0.08	lbs./day	1	SW8260B	0.005
1,1-DICHLOROETHYLENE	<0.005	mg/l	<0.11	lbs./day	<0.005	mg/l	<0.08	lbs./day	1	SW8260B	0.005
1,2-DICHLOROPROPANE	<0.005	mg/l	<0.11	lbs./day	<0.005	mg/l	<0.08	lbs./day	1	SW8260B	0.005
1,3-DICHLORO-PROPYLENE	<0.005	mg/l	<0.11	lbs./day	<0.005	mg/l	<0.08	lbs./day	1	SW8260B	0.005
ETHYLBENZENE	<0.005	mg/l	<0.11	lbs./day	<0.005	mg/l	<0.08	lbs./day	1	SW8260B	0.005
METHYL BROMIDE	<0.010	mg/l	<0.22	lbs./day	<0.010	mg/l	<0.16	lbs./day	1	SW8260B	0.010
METHYL CHLORIDE	<0.005	mg/l	<0.11	lbs./day	<0.005	mg/l	<0.08	lbs./day	1	SW8260B	0.005
METHYLENE CHLORIDE	<0.005	mg/l	<0.11	lbs./day	<0.005	mg/l	<0.08	lbs./day	1	SW8260B	0.005
1,1,2,2-TETRACHLORO-ETHANE	<0.005	mg/l	<0.11	lbs./day	<0.005	mg/l	<0.08	lbs./day	1	SW8260B	0.005
TETRACHLORO-ETHYLENE	<0.005	mg/l	<0.11	lbs./day	<0.005	mg/l	<0.08	lbs./day	1	SW8260B	0.005
TOLUENE	<0.005	mg/l	<0.11	lbs./day	<0.005	mg/l	<0.08	lbs./day	1	SW8260B	0.005

FACILITY NAME AND PERMIT NUMBER:

Demopolis WWTP; AL0043168

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OMB Number 2040-0086

Outfall number: 001 with leacha (Complete once for each outfall discharging effluent to waters of the United States.)

POLLUTANT	MAXIMUM DAILY DISCHARGE				AVERAGE DAILY DISCHARGE					ANALYTICAL METHOD	MU/MDL
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples		
1,1,1-TRICHLOROETHANE	<0.005	mg/l	<0.11	lbs./day	<0.005	mg/l	<0.08	lbs./day	1	SW8260B	0.005
1,1,2-TRICHLOROETHANE	<0.005	mg/l	<0.11	lbs./day	<0.005	mg/l	<0.08	lbs./day	1	SW8260B	0.005
TRICHLOROETHYLENE	<0.005	mg/l	<0.11	lbs./day	<0.005	mg/l	<0.08	lbs./day	1	SW8260B	0.005
VINYL CHLORIDE	<0.002	mg/l	<0.04	lbs./day	<0.002	mg/l	<0.03	lbs./day	1	SW8260B	0.002

Use this space (or a separate sheet) to provide information on other volatile organic compounds requested by the permit writer.

ACID-EXTRACTABLE COMPOUNDS

P-CHLORO-M-CRESOL	<0.010	mg/l	<0.22	lbs./day	<0.010	mg/l	<0.16	lbs./day	1	E625	0.010
2-CHLOROPHENOL	<0.010	mg/l	<0.22	lbs./day	<0.010	mg/l	<0.16	lbs./day	1	E625	0.010
2,4-DICHLOROPHENOL	<0.010	mg/l	<0.22	lbs./day	<0.010	mg/l	<0.16	lbs./day	1	E625	0.010
2,4-DIMETHYLPHENOL	<0.010	mg/l	<0.22	lbs./day	<0.010	mg/l	<0.16	lbs./day	1	E625	0.010
4,6-DINITRO-O-CRESOL	<0.050	mg/l	<1.10	lbs./day	<0.050	mg/l	<0.81	lbs./day	1	E625	0.050
2,4-DINITROPHENOL	<0.050	mg/l	<1.10	lbs./day	<0.050	mg/l	<0.81	lbs./day	1	E625	0.050
2-NITROPHENOL	<0.010	mg/l	<0.22	lbs./day	<0.010	mg/l	<0.16	lbs./day	1	E625	0.010
4-NITROPHENOL	<0.050	mg/l	<1.10	lbs./day	<0.050	mg/l	<0.81	lbs./day	1	E625	0.050
PENTACHLOROPHENOL	<0.025	mg/l	<0.55	lbs./day	<0.025	mg/l	<0.41	lbs./day	1	E625	0.025
PHENOL	<0.010	mg/l	<0.22	lbs./day	<0.010	mg/l	<0.16	lbs./day	1	E625	0.010
2,4,6-TRICHLOROPHENOL	<0.010	mg/l	<0.22	lbs./day	<0.010	mg/l	<0.16	lbs./day	1	E625	0.010

Use this space (or a separate sheet) to provide information on other acid-extractable compounds requested by the permit writer.

BASE-NEUTRAL COMPOUNDS.

ACENAPHTHENE	<0.010	mg/l	<0.22	lbs./day	<0.010	mg/l	<0.16	lbs./day	1	E625	0.010
ACENAPHTHYLENE	<0.010	mg/l	<0.22	lbs./day	<0.010	mg/l	<0.16	lbs./day	1	E625	0.010
ANTHRACENE	<0.010	mg/l	<0.22	lbs./day	<0.010	mg/l	<0.16	lbs./day	1	E625	0.010
BENZIDINE	<0.050	mg/l	<1.10	lbs./day	<0.050	mg/l	<0.81	lbs./day	1	E625	0.050
BENZO(A)ANTHRACENE	<0.010	mg/l	<0.22	lbs./day	<0.010	mg/l	<0.16	lbs./day	1	E625	0.010
BENZO(A)PYRENE	<0.010	mg/l	<0.22	lbs./day	<0.010	mg/l	<0.16	lbs./day	1	E625	0.010

FACILITY NAME AND PERMIT NUMBER:

Demopolis WWTP; AL0043168

Form Approved 1/14/99
OMB Number 2040-0088

Outfall number: 001 with leacha (Complete once for each outfall discharging effluent to waters of the United States.)

POLLUTANT	MAXIMUM DAILY DISCHARGE				AVERAGE DAILY DISCHARGE					ANALYTICAL METHOD	ML/MDL
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples		
3,4 BENZO-FLUORANTHENE	<0.010	mg/l	<0.22	lbs./day	<0.010	mg/l	<0.16	lbs./day	1	E625	0.010
BENZO(GH)PERYLENE	<0.010	mg/l	<0.22	lbs./day	<0.010	mg/l	<0.16	lbs./day	1	E625	0.010
BENZO(K)FLUORANTHENE	<0.010	mg/l	<0.22	lbs./day	<0.010	mg/l	<0.16	lbs./day	1	E625	0.010
BIS (2-CHLOROETHOXY) METHANE	<0.010	mg/l	<0.22	lbs./day	<0.010	mg/l	<0.16	lbs./day	1	E625	0.010
BIS (2-CHLOROETHYL)-ETHER	<0.010	mg/l	<0.22	lbs./day	<0.010	mg/l	<0.16	lbs./day	1	E625	0.010
BIS (2-CHLOROISO-PROPYL) ETHER	<0.010	mg/l	<0.22	lbs./day	<0.010	mg/l	<0.16	lbs./day	1	E625	0.010
BIS (2-ETHYLHEXYL) PHTHALATE	<0.010	mg/l	<0.22	lbs./day	<0.010	mg/l	<0.16	lbs./day	1	E625	0.010
4-BROMOPHENYL PHENYL ETHER	<0.010	mg/l	<0.22	lbs./day	<0.010	mg/l	<0.16	lbs./day	1	E625	0.010
BUTYL BENZYL PHTHALATE	<0.010	mg/l	<0.22	lbs./day	<0.010	mg/l	<0.16	lbs./day	1	E625	0.010
2-CHLORONAPHTHALENE	<0.010	mg/l	<0.22	lbs./day	<0.010	mg/l	<0.16	lbs./day	1	E625	0.010
4-CHLORPHENYL PHENYL ETHER	<0.010	mg/l	<0.22	lbs./day	<0.010	mg/l	<0.16	lbs./day	1	E625	0.010
CHRYSENE	<0.010	mg/l	<0.22	lbs./day	<0.010	mg/l	<0.16	lbs./day	1	E625	0.010
DI-N-BUTYL PHTHALATE	<0.010	mg/l	<0.22	lbs./day	<0.010	mg/l	<0.16	lbs./day	1	E625	0.010
DI-N-OCTYL PHTHALATE	<0.010	mg/l	<0.22	lbs./day	<0.010	mg/l	<0.16	lbs./day	1	E625	0.010
DIBENZO(A,H) ANTHRACENE	<0.010	mg/l	<0.22	lbs./day	<0.010	mg/l	<0.16	lbs./day	1	E625	0.010
1,2-DICHLOROBENZENE	<0.005	mg/l	<0.11	lbs./day	<0.005	mg/l	<0.08	lbs./day	1	SW8260B	0.005
1,3-DICHLOROBENZENE	<0.005	mg/l	<0.11	lbs./day	<0.005	mg/l	<0.08	lbs./day	1	SW8260B	0.005
1,4-DICHLOROBENZENE	<0.005	mg/l	<0.11	lbs./day	<0.005	mg/l	<0.08	lbs./day	1	SW8260B	0.005
3,3-DICHLOROBENZIDINE	<0.020	mg/l	<0.44	lbs./day	<0.020	mg/l	<0.32	lbs./day	1	E625	0.020
DIETHYL PHTHALATE	<0.010	mg/l	<0.22	lbs./day	<0.010	mg/l	<0.16	lbs./day	1	E625	0.010
DIMETHYL PHTHALATE	<0.010	mg/l	<0.22	lbs./day	<0.010	mg/l	<0.16	lbs./day	1	E625	0.010
2,4-DINITROTOLUENE	<0.010	mg/l	<0.22	lbs./day	<0.010	mg/l	<0.16	lbs./day	1	E625	0.010
2,6-DINITROTOLUENE	<0.010	mg/l	<0.22	lbs./day	<0.010	mg/l	<0.16	lbs./day	1	E625	0.010
1,2-DIPHENYLHYDRAZINE	<0.050	mg/l	<1.10	lbs./day	<0.050	mg/l	<0.81	lbs./day	1	E625	0.050

FACILITY NAME AND PERMIT NUMBER:

Demopolis WWTP; AL0043168

Form Approved 1/14/99
OMB Number 2040-0086Outfall number: 001 with leacha (Complete once for each outfall discharging effluent to waters of the United States.)

POLLUTANT	MAXIMUM DAILY DISCHARGE				AVERAGE DAILY DISCHARGE					ANALYTICAL METHOD	ML/MDL
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples		
FLUORANTHENE	<0.010	mg/l	<0.22	lbs./day	<0.010	mg/l	<0.16	lbs./day	1	E625	0.010
FLUORENE	<0.010	mg/l	<0.22	lbs./day	<0.010	mg/l	<0.16	lbs./day	1	E625	0.010
HEXACHLOROBENZENE	<0.010	mg/l	<0.22	lbs./day	<0.010	mg/l	<0.16	lbs./day	1	E625	0.010
HEXACHLOROBUTADIENE	<0.010	mg/l	<0.22	lbs./day	<0.010	mg/l	<0.16	lbs./day	1	E625	0.010
HEXACHLOROCYCLO-PENTADIENE	<0.010	mg/l	<0.22	lbs./day	<0.010	mg/l	<0.16	lbs./day	1	E625	0.010
HEXACHLOROETHANE	<0.010	mg/l	<0.22	lbs./day	<0.010	mg/l	<0.16	lbs./day	1	E625	0.010
INDENO(1,2,3-CD)PYRENE	<0.010	mg/l	<0.22	lbs./day	<0.010	mg/l	<0.16	lbs./day	1	E625	0.010
ISOPHORONE	<0.010	mg/l	<0.22	lbs./day	<0.010	mg/l	<0.16	lbs./day	1	E625	0.010
NAPHTHALENE	<0.010	mg/l	<0.22	lbs./day	<0.010	mg/l	<0.16	lbs./day	1	E625	0.010
NITROBENZENE	<0.010	mg/l	<0.22	lbs./day	<0.010	mg/l	<0.16	lbs./day	1	E625	0.010
N-NITROSODI-N-PROPYLAMINE	<0.010	mg/l	<0.22	lbs./day	<0.010	mg/l	<0.16	lbs./day	1	E625	0.010
N-NITROSODI- METHYLAMINE	<0.010	mg/l	<0.22	lbs./day	<0.010	mg/l	<0.16	lbs./day	1	E625	0.010
N-NITROSODI-PHENYLAMINE	<0.010	mg/l	<0.22	lbs./day	<0.010	mg/l	<0.16	lbs./day	1	E625	0.010
PHENANTHRENE	<0.010	mg/l	<0.22	lbs./day	<0.010	mg/l	<0.16	lbs./day	1	E625	0.010
PYRENE	<0.010	mg/l	<0.22	lbs./day	<0.010	mg/l	<0.16	lbs./day	1	E625	0.010
1,2,4-TRICHLOROBENZENE	<0.010	mg/l	<0.22	lbs./day	<0.010	mg/l	<0.16	lbs./day	1	E625	0.010

Use this space (or a separate sheet) to provide information on other base-neutral compounds requested by the permit writer.

Use this space (or a separate sheet) to provide information on other pollutants (e.g., pesticides) requested by the permit writer.

END OF PART D.

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE



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February 16, 2010

Mr. Byron Cook
Demopolis Water Works & Sewer Board
2101 Water Avenue
Demopolis, AL 36732

RE: EPA Form 2A - Effluent - With PCA Leachate
Work Order Number: **100127065**

Dear Client:

TTL, Inc. received sample(s) on Wednesday, January 27, 2010 for the analyses presented in the attached report.

If you should have any questions regarding these analyses, please feel free to call. The work order number shown above will assist us in accessing your data more efficiently.

Thank you for the opportunity to provide these services.

Sincerely,
TTL, Inc.

Steve Martin
Chemist

Attachments

cc Mr. Clint L. Courson
clintlcourson@hhnt.com
cc Mr. Eddie Dorsett - PCA



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Date: 16-Feb-10

CLIENT: Demopolis Water Works & Sewer Board
Project: EPA Form 2A - Effluent - With PCA Leachate
Lab Order: 100127065

CASE NARRATIVE

The samples were analyzed in general accordance with methods outlined in 40 CFR, Part 136.

To help with completing the EPA Form 2A, the following is a list of compounds that are listed by one name in our report and another on the Form:

Report = Form 2A

VOLATILES

Bromodichloromethane = Dichlorobromo-methane

Dibromochloromethane = Chlorodibromo-methane

trans-1,2-dichloroethene = trans-1,2-dichloro-ethylene

1,2-dichloroethene = 1,1-dichloroethylene

cis-1,3-dichloropropene plus trans-1,3-dichloropropene = 1,3-dichloro-propylene

Bromomethane = Methyl Bromide

Chloromethane = Methyl Chloride

Tetrachloroethene = Tetrachloro-ethylene

Trichloroethene = Trichloro-ethylene

BASE-NEUTRAL/ACID-EXTRACTABLE

4-Chloro-3-methylphenol = P-Chloro-M-Cresol

4,6-Dinitro-2-methylphenol = 4,6-Dinitro-O-Cresol

Benzo(b)fluoranthene = 3,4 Benzo-Fluoranthene



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Date: 16-Feb-10

CLIENT: Demopolis Water Works & Sewer Board
Project: EPA Form 2A - Effluent - With PCA Leachate

Lab Order: 100127065**Lab ID:** 100127065-001**Collection Date:** 01/27/2010 13:15**Client Sample ID:** Effluent**Matrix:** Aqueous

Analyses	Result	Limit	Units	DF	Date Analyzed
TOTAL HARDNESS		M2340 B	Prep:(E200.7)	01/27/2010 15:47	Analyst: HTP
Hardness, Calcium/Magnesium (As CaCO ₃)	203	1.00	mg/L	1	02/03/2010 8:10
MERCURY, TOTAL RECOVERABLE		SW7470	Prep:(SW7470A)	01/28/2010 8:25	Analyst: GAH
Mercury, as Hg	< 0.0010	0.0010	mg/L	1	01/30/2010 9:03
ICP METALS, TOTAL RECOVERABLE		E200.7	Prep:(E4.1.1)	01/27/2010 15:51	Analyst: HTP
Antimony, as Sb	< 0.005	0.005	mg/L	1	02/02/2010 0:00
Arsenic, as As	< 0.010	0.010	mg/L	1	02/02/2010 0:00
Beryllium, as Be	< 0.001	0.001	mg/L	1	02/02/2010 0:00
Cadmium, as Cd	< 0.001	0.001	mg/L	1	02/02/2010 0:00
Chromium, as Cr	< 0.050	0.050	mg/L	1	02/02/2010 0:00
Copper, as Cu	< 0.050	0.050	mg/L	1	02/02/2010 0:00
Lead, as Pb	< 0.005	0.005	mg/L	1	02/02/2010 0:00
Nickel, as Ni	< 0.050	0.050	mg/L	1	02/02/2010 0:00
Silver, as Ag	< 0.050	0.050	mg/L	1	02/02/2010 0:00
Zinc, as Zn	< 0.050	0.050	mg/L	1	02/02/2010 0:00
SELENIUM IN WASTEWATER		E270.2	Prep:(E200.7)	01/27/2010 15:47	Analyst: GAH
Selenium	< 0.010	0.010	mg/L	1	02/09/2010 9:27
TL TOTAL RECOVERABLE BY GFAA		E200.9	Prep:(E4.1.1)	01/27/2010 15:51	Analyst: GAH
Thallium, as Tl	< 0.001	0.001	mg/L	1	02/05/2010 12:44
VOLATILES BY GC/MS METHOD 624		SW8260B	Prep:		Analyst: VJB
1,1,1-Trichloroethane	< 0.005	0.005	mg/L	1	02/03/2010 1:01
1,1,2,2-Tetrachloroethane	< 0.005	0.005	mg/L	1	02/03/2010 1:01
1,1,2-Trichloroethane	< 0.005	0.005	mg/L	1	02/03/2010 1:01
1,1-Dichloroethane	< 0.005	0.005	mg/L	1	02/03/2010 1:01
1,1-Dichloroethene	< 0.005	0.005	mg/L	1	02/03/2010 1:01
1,2-Dichlorobenzene	< 0.005	0.005	mg/L	1	02/03/2010 1:01
1,2-Dichloroethane	< 0.005	0.005	mg/L	1	02/03/2010 1:01
1,2-Dichloropropane	< 0.005	0.005	mg/L	1	02/03/2010 1:01
1,3-Dichlorobenzene	< 0.005	0.005	mg/L	1	02/03/2010 1:01
1,4-Dichlorobenzene	< 0.005	0.005	mg/L	1	02/03/2010 1:01
2-Chloroethyl vinyl ether	< 0.010	0.010	mg/L	1	02/03/2010 1:01
Acrolein	< 0.100	0.100	mg/L	1	02/03/2010 1:01
Acrylonitrile	< 0.100	0.100	mg/L	1	02/03/2010 1:01
Benzene	< 0.005	0.005	mg/L	1	02/03/2010 1:01
Bromodichloromethane	< 0.005	0.005	mg/L	1	02/03/2010 1:01



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Date: 16-Feb-10

CLIENT: Demopolis Water Works & Sewer Board
Project: EPA Form 2A - Effluent - With PCA Leachate
Lab Order: 100127065

VOLATILES BY GC/MS METHOD 624		SW8260B	Prep:	Analyst: VJB
~ Bromoform	< 0.005	0.005	mg/L 1	02/03/2010 1:01
~ Bromomethane	< 0.010	0.010	mg/L 1	02/03/2010 1:01
~ Carbon tetrachloride	< 0.005	0.005	mg/L 1	02/03/2010 1:01
~ Chlorobenzene	< 0.005	0.005	mg/L 1	02/03/2010 1:01
~ Chloroethane	< 0.010	0.010	mg/L 1	02/03/2010 1:01
~ Chloroform	< 0.005	0.005	mg/L 1	02/03/2010 1:01
~ Chloromethane	< 0.005	0.005	mg/L 1	02/03/2010 1:01
~ cis-1,3-Dichloropropene	< 0.005	0.005	mg/L 1	02/03/2010 1:01
~ Dibromochloromethane	< 0.005	0.005	mg/L 1	02/03/2010 1:01
~ Ethylbenzene	< 0.005	0.005	mg/L 1	02/03/2010 1:01
~ Methylene chloride	< 0.005	0.005	mg/L 1	02/03/2010 1:01
~ Tetrachloroethene	< 0.005	0.005	mg/L 1	02/03/2010 1:01
~ Toluene	< 0.005	0.005	mg/L 1	02/03/2010 1:01
~ trans-1,2-Dichloroethene	< 0.005	0.005	mg/L 1	02/03/2010 1:01
~ trans-1,3-Dichloropropene	< 0.005	0.005	mg/L 1	02/03/2010 1:01
~ Trichloroethene	< 0.005	0.005	mg/L 1	02/03/2010 1:01
~ Vinyl chloride	< 0.002	0.002	mg/L 1	02/03/2010 1:01
✓ CYANIDE, TOTAL		M4500-CN CE	Prep:	Analyst: RJM
Cyanide, Total	< 0.010	0.010	mg/L 1	01/28/2010 13:00
PH IN THE FIELD		M4500-HB	Prep:	Analyst: TCD
pH	7.30	0	pH Units 1	01/27/2010 13:15
✓ PHENOLICS, TOTAL RECOVERABLE		M510 AC	Prep:	Analyst: KIR
Phenolics, Total Recoverable	< 0.10	0.10	mg/L 1	01/29/2010 17:00
TEMPERATURE, DEGREES C		E170.1	Prep:	Analyst: TCD
Temperature	12.9	0	°C 1	01/27/2010 13:15



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Date: 16-Feb-10

CLIENT: Demopolis Water Works & Sewer Board Lab Order: 100127065
Project: EPA Form 2A - Effluent - With PCA Leachate

Lab ID: 100127065-002

Collection Date: 01/27/2010 0:00

Client Sample ID: Trip Blank

Matrix: Aqueous

Analyses	Result	Limit	Units	DF	Date Analyzed
VOLATILES BY GC/MS METHOD 624		SW8260B	Prep:		Analyst: VJB
1,1,1-Trichloroethane	< 0.005	0.005	mg/L	1	02/03/2010 1:37
1,1,2,2-Tetrachloroethane	< 0.005	0.005	mg/L	1	02/03/2010 1:37
1,1,2-Trichloroethane	< 0.005	0.005	mg/L	1	02/03/2010 1:37
1,1-Dichloroethane	< 0.005	0.005	mg/L	1	02/03/2010 1:37
1,1-Dichloroethene	< 0.005	0.005	mg/L	1	02/03/2010 1:37
1,2-Dichlorobenzene	< 0.005	0.005	mg/L	1	02/03/2010 1:37
1,2-Dichloroethane	< 0.005	0.005	mg/L	1	02/03/2010 1:37
1,2-Dichloropropane	< 0.005	0.005	mg/L	1	02/03/2010 1:37
1,3-Dichlorobenzene	< 0.005	0.005	mg/L	1	02/03/2010 1:37
1,4-Dichlorobenzene	< 0.005	0.005	mg/L	1	02/03/2010 1:37
2-Chloroethyl vinyl ether	< 0.010	0.010	mg/L	1	02/03/2010 1:37
Acrolein	< 0.100	0.100	mg/L	1	02/03/2010 1:37
Acrylonitrile	< 0.100	0.100	mg/L	1	02/03/2010 1:37
Benzene	< 0.005	0.005	mg/L	1	02/03/2010 1:37
Bromodichloromethane	< 0.005	0.005	mg/L	1	02/03/2010 1:37
Bromoform	< 0.005	0.005	mg/L	1	02/03/2010 1:37
Bromomethane	< 0.010	0.010	mg/L	1	02/03/2010 1:37
Carbon tetrachloride	< 0.005	0.005	mg/L	1	02/03/2010 1:37
Chlorobenzene	< 0.005	0.005	mg/L	1	02/03/2010 1:37
Chloroethane	< 0.010	0.010	mg/L	1	02/03/2010 1:37
Chloroform	< 0.005	0.005	mg/L	1	02/03/2010 1:37
Chloromethane	< 0.005	0.005	mg/L	1	02/03/2010 1:37
cis-1,3-Dichloropropene	< 0.005	0.005	mg/L	1	02/03/2010 1:37
Dibromochloromethane	< 0.005	0.005	mg/L	1	02/03/2010 1:37
Ethylbenzene	< 0.005	0.005	mg/L	1	02/03/2010 1:37
Methylene chloride	< 0.005	0.005	mg/L	1	02/03/2010 1:37
Tetrachloroethene	< 0.005	0.005	mg/L	1	02/03/2010 1:37
Toluene	< 0.005	0.005	mg/L	1	02/03/2010 1:37
trans-1,2-Dichloroethene	< 0.005	0.005	mg/L	1	02/03/2010 1:37
trans-1,3-Dichloropropene	< 0.005	0.005	mg/L	1	02/03/2010 1:37
Trichloroethene	< 0.005	0.005	mg/L	1	02/03/2010 1:37
Vinyl chloride	< 0.002	0.002	mg/L	1	02/03/2010 1:37



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Date: 16-Feb-10

CLIENT: Demopolis Water Works & Sewer Board Lab Order: 100127065
Project: EPA Form 2A - Effluent - With PCA Leachate

Lab ID: 100127065-001 Collection Date: 01/27/2010 13:15
Client Sample ID: Effluent Matrix: Aqueous

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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SEMIVOLATILE ORGANICS BY 625

E625

Prep:(E625)

02/02/2010 10:10 Analyst: VJB

~ 1,2,4-Trichlorobenzene	< 0.010	0.010		mg/L	1	02/11/2010 15:10
~ 1,2-Diphenylhydrazine	< 0.050	0.050		mg/L	1	02/11/2010 15:10
~ 2,4,6-Trichlorophenol	< 0.010	0.010		mg/L	1	02/11/2010 15:10
~ 2,4-Dichlorophenol	< 0.010	0.010		mg/L	1	02/11/2010 15:10
~ 2,4-Dimethylphenol	< 0.010	0.010		mg/L	1	02/11/2010 15:10
~ 2,4-Dinitrophenol	< 0.050	0.050		mg/L	1	02/11/2010 15:10
~ 2,4-Dinitrotoluene	< 0.010	0.010		mg/L	1	02/11/2010 15:10
~ 2,6-Dinitrotoluene	< 0.010	0.010		mg/L	1	02/11/2010 15:10
~ 2-Chloronaphthalene	< 0.010	0.010		mg/L	1	02/11/2010 15:10
~ 2-Chlorophenol	< 0.010	0.010		mg/L	1	02/11/2010 15:10
~ 2-Nitrophenol	< 0.010	0.010		mg/L	1	02/11/2010 15:10
~ 3,3'-Dichlorobenzidine	< 0.020	0.020		mg/L	1	02/11/2010 15:10
~ 4,6-Dinitro-2-methylphenol	< 0.050	0.050		mg/L	1	02/11/2010 15:10
~ 4-Bromophenyl phenyl ether	< 0.010	0.010		mg/L	1	02/11/2010 15:10
~ 4-Chloro-3-methylphenol	< 0.010	0.010		mg/L	1	02/11/2010 15:10
~ 4-Chlorophenyl phenyl ether	< 0.010	0.010		mg/L	1	02/11/2010 15:10
~ 4-Nitrophenol	< 0.050	0.050		mg/L	1	02/11/2010 15:10
~ Acenaphthene	< 0.010	0.010		mg/L	1	02/11/2010 15:10
~ Acenaphthylene	< 0.010	0.010		mg/L	1	02/11/2010 15:10
~ Anthracene	< 0.010	0.010		mg/L	1	02/11/2010 15:10
~ Benz(a)anthracene	< 0.010	0.010		mg/L	1	02/11/2010 15:10
~ Benzidine	< 0.050	0.050		mg/L	1	02/11/2010 15:10
~ Benzo(a)pyrene	< 0.010	0.010		mg/L	1	02/11/2010 15:10
~ Benzo(b)fluoranthene	< 0.010	0.010		mg/L	1	02/11/2010 15:10
~ Benzo(g,h,i)perylene	< 0.010	0.010		mg/L	1	02/11/2010 15:10
~ Benzo(k)fluoranthene	< 0.010	0.010		mg/L	1	02/11/2010 15:10
~ Bis(2-chloroethoxy)methane	< 0.010	0.010		mg/L	1	02/11/2010 15:10
~ Bis(2-chloroethyl)ether	< 0.010	0.010		mg/L	1	02/11/2010 15:10
~ Bis(2-chloroisopropyl)ether	< 0.010	0.010		mg/L	1	02/11/2010 15:10
~ Bis(2-ethylhexyl)phthalate	< 0.010	0.010		mg/L	1	02/11/2010 15:10
~ Butyl benzyl phthalate	< 0.010	0.010		mg/L	1	02/11/2010 15:10
~ Chrysene	< 0.010	0.010		mg/L	1	02/11/2010 15:10
~ Dibenz(a,h)anthracene	< 0.010	0.010		mg/L	1	02/11/2010 15:10
~ Diethyl phthalate	< 0.010	0.010		mg/L	1	02/11/2010 15:10
~ Dimethyl phthalate	< 0.010	0.010		mg/L	1	02/11/2010 15:10
~ Di-n-butyl phthalate	< 0.010	0.010		mg/L	1	02/11/2010 15:10
~ Di-n-octyl phthalate	< 0.010	0.010		mg/L	1	02/11/2010 15:10

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at or above the Method Detection Limit
X %D Exceeds limits

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Tuscaloosa, AL 35401

205.345.0816 tel
205.343.0635 fax
www.TTLINC.com

Date: 16-Feb-10

CLIENT: Demopolis Water Works & Sewer Board
Project: EPA Form 2A - Effluent - With PCA Leachate

Lab Order: 100127065

SEMIVOLATILE ORGANICS BY 625			E625	Prep:(E625)	02/02/2010 10:10	Analyst: VJB
Fluoranthene	< 0.010	0.010		mg/L	1	02/11/2010 15:10
Fluorene	< 0.010	0.010		mg/L	1	02/11/2010 15:10
Hexachlorobenzene	< 0.010	0.010		mg/L	1	02/11/2010 15:10
Hexachlorobutadiene	< 0.010	0.010		mg/L	1	02/11/2010 15:10
Hexachlorocyclopentadiene	< 0.010	0.010	X	mg/L	1	02/11/2010 15:10
Hexachloroethane	< 0.010	0.010		mg/L	1	02/11/2010 15:10
Indeno(1,2,3-cd)pyrene	< 0.010	0.010		mg/L	1	02/11/2010 15:10
Isophorone	< 0.010	0.010		mg/L	1	02/11/2010 15:10
Naphthalene	< 0.010	0.010		mg/L	1	02/11/2010 15:10
Nitrobenzene	< 0.010	0.010		mg/L	1	02/11/2010 15:10
N-Nitrosodimethylamine	< 0.010	0.010		mg/L	1	02/11/2010 15:10
N-Nitrosodi-n-propylamine	< 0.010	0.010		mg/L	1	02/11/2010 15:10
N-Nitrosodiphenylamine	< 0.010	0.010		mg/L	1	02/11/2010 15:10
Pentachlorophenol	< 0.025	0.025		mg/L	1	02/11/2010 15:10
Phenanthrene	< 0.010	0.010		mg/L	1	02/11/2010 15:10
Phenol	< 0.010	0.010		mg/L	1	02/11/2010 15:10
Pyrene	< 0.010	0.010		mg/L	1	02/11/2010 15:10

Qualifiers:
* Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at or above the Method Detection Limit
X %D Exceeds limits

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Chain of Custody Form

Sample Security Requirements

Client: Demopolis Water Works

Contact: Dyron Cook

Mailing Address: 2101 West Avenue

City, State, Zip: Urmahia At 50737

Phone No.: 334-289-1344

Date: 1/27/18

Sampled By: M. Kelly

Sample Site: 0 EHF

TTL Job No.: _____ Client P.O. # _____

1. Condition of Contents:

2. Sealed for Shipping By:

3. Initial Contents Temp.: _____ °C Seal Applied Yes _____ No _____

4. Sampling Status: Complete	Expected Completion Date

5. Custody Seal Intact Upon Receipt by Laboratory: Yes

6. Condition of Contents:

7. Comments:

8. Reporting Status: Routine; ASAP By _____; Rush By _____

[illegible]

CUSTODY TRANSFERS PRIOR TO SHIPPING

SHIPPING DETAILS

Relinquished by: (signed) Date/Time

Received by (signed) Date/Time

Air Bill

Method of Shipment:

Received By Lab

Date/Time

TT_L, Inc. - Tuscaloosa Official Laboratory: 3516 Greensboro Avenue, Tuscaloosa, Alabama 35401, Telephone (205) 345-0816, FAX (205) 342-0609
TT_L, Inc. - Montgomery Office: 3743 Gunter Park Drive West, Montgomery, Alabama 36109, Telephone (334) 244-0766, FAX (334) 244-6666

NOTE: Please read terms and conditions between TTL, Inc. and client on back of form.



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WASTEWATER FIELD DATA SHEET

Client Durham 1.5 Water Works

Sample Site/Point EFF
Sample Date/Time 1/27/10 11:15 Sample by [Signature]
NPDES Discharge Yes ☐ No ☐
Flow _____
pH 7.3 Cond _____ D.O. _____ Cl₂ _____ Temp 12.9°
Other _____

Sample Site/Point _____
Sample Date/Time _____ Sample by _____
Yes ☐ No ☐
Flow _____
pH _____ Cond _____ D.O. _____ Cl₂ _____ Temp _____
Other _____

Sample Site/Point _____
Sample Date/Time _____ Sample by _____
NPDES Discharge Yes ☐ No ☐
Flow _____
pH _____ Cond _____ D.O. _____ Cl₂ _____ Temp _____
Other _____

Sample Site/Point _____
Sample Date/Time _____ Sample by _____
NPDES Discharge Yes ☐ No ☐
Flow _____
pH _____ Cond _____ D.O. _____ Cl₂ _____ Temp _____
Other _____

Sample Site/Point _____
Sample Date/Time _____ Sample by _____
NPDES Discharge Yes ☐ No ☐
Flow _____
pH _____ Cond _____ D.O. _____ Cl₂ _____ Temp _____
Other _____

INSTRUMENT CALIBRATION

Analyst Wes Wiggins

Date 1/27/10

pH CALIBRATION

Time 8:00 ☒ AM ☐ PM

Make Symphony Model SP 70P Serial # 03891

Probe Model # 14002-860 Serial # LV17406 Service date 11/15/7

4 Buffer: MV 170.0 pH 4.00 Lot # 2907067

7 Buffer: MV 3.5 pH 7.00 Lot # 4803516

10 Buffer: MV -180.1 pH 10.00 Lot # 055810

SLOPE

DO CALIBRATION

Time _____ ☐ AM ☐ PM

Make YSI Model 550A Serial # 05B1819AB

DO of Saturation _____

Cl₂ CALIBRATION

Time _____ ☐ AM ☐ PM

Make HACH Model Pocket CL2 Serial # 08090E108724

Standard 1 0

Absorbance 1 _____

Standard 2 0.23

Absorbance 1 _____

Standard 3 .88

Absorbance 1 _____

Standard 4 1.60

Absorbance 1 _____

Was
1/27 OK

TTL, Inc.
Standard Operating Procedure
Bottle List

Demopolis
ESS/uel

EPA Form 2A w/ PCA Leads
Pollutant Scan for Publicly Owned Treatment Works (WWTP)

40 CFR Part 122, 136, et al.
Table 1A, Table 1 and Table 2

UPDATE 11/28/07

This covers all parameters, conventional and non-conventional from Appendix J Table 1A, Table 1 and Table 2. Parameters may be deleted as per the client. (See EPA Form 2A Table 2 only.)

BOTTLE TYPE	PARAMETER	SAMPLE TYPE
Quart Plastic NP	BOD (5), TSS, TDS, COD, Hg, Seawater	Composite
Quart Plastic HNO3	Metals **	Composite
Quart Plastic NaOH	CN	Grab
1-Liter Amber Glass H2SO4	624	Grab
1-Liter Amber Glass H2SO4	Phenol	Grab
40 ml Glass Vials HCl (4) with Trip Blanks	624	Grab
40 ml Glass Vials HCl (4) with Trip Blanks	624	Grab
(2) 1-Liter Amber Glass NP	625	Composite
(2) 1-Liter Amber Glass NP	625	Composite

FIELD DATA (MUST BE TAKEN WITH SAMPLES):

~~Residual Chlorine~~

~~Dissolved Oxygen~~

pH

Temperature

NOTES:

* Sample can be BOD or BOD-C

** Check with client about Mercury – Total Recoverable or Low Level

FACILITY NAME AND PERMIT NUMBER:

Demopolis WWTP; AL0043168

FEB 18 2010

Form Approved 1/14/99
OMB Number 2040-0086

SUPPLEMENTAL APPLICATION INFORMATION

NPDES Permit Branch

PART D. EXPANDED EFFLUENT TESTING DATA

Refer to the directions on the cover page to determine whether this section applies to the treatment works.

Effluent Testing: 1.0 mgd and Pretreatment Treatment Works. If the treatment works has a design flow greater than or equal to 1.0 mgd or it has (or is required to have) a pretreatment program, or is otherwise required by the permitting authority to provide the data, then provide effluent testing data for the following pollutants. Provide the indicated effluent testing information and any other information required by the permitting authority for each outfall through which effluent is discharged. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analyses conducted using 40 CFR Part 136 methods. In addition, these data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. Indicate in the blank rows provided below any data you may have on pollutants not specifically listed in this form. At a minimum, effluent testing data must be based on at least three pollutant scans and must be no more than four and one-half years old.

Outfall number: Tombigbee Upstr. (Complete once for each outfall discharging effluent to waters of the United States.)

POLLUTANT	MAXIMUM DAILY DISCHARGE				AVERAGE DAILY DISCHARGE					ANALYTICAL METHOD	ML/MDL	
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples			
			N/A				N/A					
METALS (TOTAL RECOVERABLE), CYANIDE, PHENOLS, AND HARDNESS.												
ANTIMONY	<0.005	mg/l		lbs./day	<0.005	mg/l		lbs./day	1	E200.7	0.005	
ARSENIC	<0.010	mg/l		lbs./day	<0.010	mg/l		lbs./day	1	E200.7	0.010	
BERYLLIUM	<0.001	mg/l		lbs./day	<0.001	mg/l		lbs./day	1	E200.7	0.001	
CADMIUM	<0.001	mg/l		lbs./day	<0.001	mg/l		lbs./day	1	E200.7	0.001	
CHROMIUM	<0.050	mg/l		lbs./day	<0.050	mg/l		lbs./day	1	E200.7	0.050	
COPPER	<0.050	mg/l		lbs./day	<0.050	mg/l		lbs./day	1	E200.7	0.050	
LEAD	<0.005	mg/l		lbs./day	<0.005	mg/l		lbs./day	1	E200.7	0.005	
MERCURY	<0.0010	mg/l		lbs./day	<0.0010	mg/l		lbs./day	1	SW7470	0.0010	
NICKEL	<0.050	mg/l		lbs./day	<0.050	mg/l		lbs./day	1	E200.7	0.050	
SELENIUM	<0.010	mg/l		lbs./day	<0.010	mg/l		lbs./day	1	E270.2	0.010	
SILVER	<0.050	mg/l		lbs./day	<0.050	mg/l		lbs./day	1	E200.7	0.050	
THALLIUM	<0.001	mg/l		lbs./day	<0.001	mg/l		lbs./day	1	E200.9	0.001	
ZINC	<0.050	mg/l		lbs./day	<0.050	mg/l		lbs./day	1	E200.7	0.050	
CYANIDE	No Test	mg/l		lbs./day		mg/l		lbs./day	1			
TOTAL PHENOLIC COMPOUNDS	No Test	mg/l		lbs./day		mg/l		lbs./day	1			
HARDNESS (AS CaCO ₃)	64.1	mg/l		lbs./day	64.1	mg/l		lbs./day	1	M2340 B	1.00	
Use this space (or a separate sheet) to provide information on other metals requested by the permit writer.												



3516 Greensboro Avenue
P O Drawer 1128 (35403)
Tuscaloosa, AL 35401

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205.345.0816 tel
205.343.0635 fax
www.TTLINC.com

February 15, 2010

Mr. Byron Cook
Demopolis Water Works & Sewer Board
2101 Water Avenue
Demopolis, AL 36732

RE: EPA Form 2A - Upstream with PCA Leachate
Work Order Number: 100127066

Dear Client:

TTL, Inc. received sample(s) on Wednesday, January 27, 2010 for the analyses presented in the attached report.

If you should have any questions regarding these analyses, please feel free to call. The work order number shown above will assist us in accessing your data more efficiently.

Thank you for the opportunity to provide these services.

Sincerely,
TTL, Inc.



Steve Martin
Chemist

Attachments

cc Mr. Clint L. Courson
clintlcourson@hhnt.com
cc Mr. Eddie Dorsett - PCA



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Tuscaloosa, AL 35401

205.345.0816 tel
205.343.0635 fax
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Date: 15-Feb-10

CLIENT: Demopolis Water Works & Sewer Board
Project: EPA Form 2A - Upstream with PCA Leachate
Lab Order: 100127066

CASE NARRATIVE

The samples were analyzed in general accordance with methods outlined in 40 CFR, Part 136.



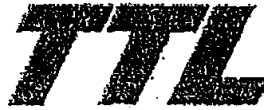
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Tuscaloosa, AL 35401

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205.345.0816 tel
205.343.0635 fax
www.TTLINC.com

Date: 15-Feb-10

CLIENT: Demopolis Water Works & Sewer Board		Lab Order: 100127066	
Project: EPA Form 2A - Upstream with PCA Leachate			
Lab ID: 100127066-001		Collection Date: 01/27/2010 13:10	
Client Sample ID: Upstream		Matrix: Aqueous	
Analyses	Result	Limit	Units DF Date Analyzed
TOTAL HARDNESS			
✓ Hardness, Calcium/Magnesium (As CaCO ₃)	64.1	M2340 B 1.00	Prep:(E200.7) 01/27/2010 15:47 Analyst: HTP mg/L 1 02/03/2010 8:10
MERCURY, TOTAL RECOVERABLE			
✓ Mercury, as Hg	< 0.0010	SW7470 0.0010	Prep:(SW7470A) 01/28/2010 8:25 Analyst: GAH mg/L 1 01/30/2010 9:03
ICP METALS, TOTAL RECOVERABLE			
✓ Antimony, as Sb	< 0.005	E200.7 0.005	Prep:(E4.1.1) 01/27/2010 15:51 Analyst: HTP mg/L 1 02/02/2010 0:00
✓ Arsenic, as As	< 0.010	0.010	mg/L 1 02/02/2010 0:00
✓ Beryllium, as Be	< 0.001	0.001	mg/L 1 02/02/2010 0:00
✓ Cadmium, as Cd	< 0.001	0.001	mg/L 1 02/02/2010 0:00
✓ Chromium, as Cr	< 0.050	0.050	mg/L 1 02/02/2010 0:00
✓ Copper, as Cu	< 0.050	0.050	mg/L 1 02/02/2010 0:00
✓ Lead, as Pb	< 0.005	0.005	mg/L 1 02/02/2010 0:00
✓ Nickel, as Ni	< 0.050	0.050	mg/L 1 02/02/2010 0:00
✓ Silver, as Ag	< 0.050	0.050	mg/L 1 02/02/2010 0:00
✓ Zinc, as Zn	< 0.050	0.050	mg/L 1 02/02/2010 0:00
SELENIUM IN WASTEWATER			
✓ Selenium	< 0.010	E270.2 0.010	Prep:(E200.7) 01/27/2010 15:47 Analyst: GAH mg/L 1 02/09/2010 9:27
TL TOTAL RECOVERABLE BY GFAA			
✓ Thallium, as Tl	< 0.001	E200.9 0.001	Prep:(E4.1.1) 01/27/2010 15:51 Analyst: GAH mg/L 1 02/05/2010 12:44



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WASTEWATER FIELD DATA SHEET

Client Durham's Water Works

Sample Site/Point EFF

Sample Date/Time 1/27/10 1:15 Sample by [Signature]

NPDES Discharge Yes ☐ No ☐

Flow ☐

pH 7.3 Cond ☐ D.O. ☐ Cl₂ ☐ Temp 12.9°

Other ☐

Sample Site/Point ☐

Sample Date/Time ☐ Sample by ☐

Yes ☐ No ☐

Flow ☐

pH ☐ Cond ☐ D.O. ☐ Cl₂ ☐ Temp ☐

Other ☐

Sample Site/Point ☐

Sample Date/Time ☐ Sample by ☐

NPDES Discharge Yes ☐ No ☐

Flow ☐

pH ☐ Cond ☐ D.O. ☐ Cl₂ ☐ Temp ☐

Other ☐

Sample Site/Point ☐

Sample Date/Time ☐ Sample by ☐

NPDES Discharge Yes ☐ No ☐

Flow ☐

pH ☐ Cond ☐ D.O. ☐ Cl₂ ☐ Temp ☐

Other ☐

Sample Site/Point ☐

Sample Date/Time ☐ Sample by ☐

NPDES Discharge Yes ☐ No ☐

Flow ☐

pH ☐ Cond ☐ D.O. ☐ Cl₂ ☐ Temp ☐

Other ☐

INSTRUMENT CALIBRATION

Analyst Wes Wiggins

Date 1/27/10

pH CALIBRATION

Time 8:00 ☒ AM ☐ PM

Make Symphony Model SP 70P Serial # 03891

Probe Model # 14002-860 Serial # LV17406 Service date 11/15/7

4 Buffer: MV 170.0 pH 4.00 Lot # 2907067

7 Buffer: MV 3.5 pH 7.00 Lot # 4803516

10 Buffer: MV -180.1 pH 10.00 Lot # 085810

SLOPE

DO CALIBRATION

Time ☐ AM ☐ PM

Make YSI Model 550A Serial # 05B1819AB

DO of Saturation

Cl₂ CALIBRATION

Time ☐ AM ☐ PM

Make HACH Model Pocket CL2 Serial # 08090E108724

Standard 1 0

Absorbance 1

Standard 2 0.23

Absorbance 1

Standard 3 .88

Absorbance 1

Standard 4 1.60

Absorbance 1

Was
1/27 OK

TTL, Inc.
Standard Operating Procedure
Bottle List

Demopolis
ESS Unit

EPA Form 2A w/ PCA heads
Pollutant Scan for Publicly Owned Treatment Works (WWTP)

40 CFR Part 122, 136, et al.
Table 1A, Table 1 and Table 2

UPDATE 11/28/07

This covers all parameters, conventional and non-conventional from Appendix J Table 1A, Table 1 and Table 2. Parameters may be deleted as per the client. (See EPA Form 2A Table 2 only.)

BOTTLE TYPE	PARAMETER	SAMPLE TYPE
Quart Plastic NP	BOD (S), TSS, TDS, Total Nitrogen, Composite	Composite
Quart Plastic HNO3	Metals **	Composite
Quart Plastic NaOH	CN	Grab
1-Liter Glass H2SO4	624	Grab
1-Liter Amber Glass H2SO4	Phenol	Grab
40 ml Glass Vials HCl (4) with Trip Blanks	624	Grab
40 ml Glass Vials HCl (4) with Trip Blanks	624	Grab
(2) 1-Liter Amber Glass NP	625	Composite
1-Liter Glass NP	625	Composite

FIELD DATA (MUST BE TAKEN WITH SAMPLES):

Residual Chlorine

~~Dissolved Oxygen~~

pH

Temperature

NOTES:

* Sample can be BOD or BOD-C

** Check with client about Mercury – Total Recoverable or Low Level

Arrowhead landrill Leachate Labs 2008

DATE	MG/L CBOD5	MG/L TSS	MG/L NH3-N
2/20/2008	40.7	18	0.9
2/28/2008	192	32	4.1
3/7/2008	178	27	3.71
4/25/2008	198	18	7.02
5/7/2008	237	22	4.96
5/22/2008	305	18	11.8
5/29/2008	527	42	13.3
6/5/2008	632	206	13.2
6/25/2008	259	21	9.42
7/16/2008	457	152	15.4
7/30/2008	390	500	17.1
8/15/2008	442	150	7.39
8/22/2008	404	43	9.33
9/1/2008	85	9	0.13
9/10/2008	1580	58	44.3
9/22/2008	569	117	52.1
10/1/2008	515	106	47.9
12/17/2008	146	18	13.6

